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# Faculty and Family Student Housing, Open Space Plan, and LRDP Amendment EIR Addendum

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# **APPENDICES**

Appendix A: 2004 Faculty and Family Student Housing, Open Space Plan, and LRDP Amendment EIR Mitigation and Monitoring Plan

# 1.0 INTRODUCTION

On September 21, 2004, The Regents of the University of California adopted resolutions and findings approving the Faculty and Family Student Housing, Open Space Plan, and for Amendment of the Long Range Development Plan, Santa Barbara Campus adopted by The Regents of the University of California on September 21, 2004 ("2004 LRDP Amendment"). The 2004 LRDP Amendment was approved by The Regents after the preparation and certification of an Environmental Impact Report and findings pursuant to the California Environmental Quality Act ("CEQA").

Section 15612 of the California Code of Regulations Title 14, Chapter 3 (the "CEQA Guidelines") provides that "[w]hen an EIR has been certified or a negative declaration adopted for a project, no subsequent EIR shall be prepared for that project unless the lead agency determines, on the basis of substantial evidence in the light of the whole record, one or more of the following:

- (1) Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- (2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or Negative Declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- (3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the Negative Declaration was adopted, shows any of the following:
  - (A) The project will have one or more significant effects not discussed in the previous EIR or negative declaration;
  - (B) Significant effects previously examined will be substantially more severe than shown in the previous EIR;
  - (C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
  - (D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

Section 15162(d) provides that if a Supplemental EIR is not required pursuant to the foregoing analysis, "the lead agency shall determine whether to prepare a subsequent negative declaration, an addendum, or no further documentation."

Faculty and Family Student Housing, Open Space Plan, and LRDP Amendment EIR Addendum

This Addendum was prepared in compliance with Section 15162 of the CEQA Guidelines to examine the potential environmental impacts of proposed changes to the 2004 LRDP Amendment. This Addendum includes a description of the revisions to the 2004 FEIR certified by The Regents for the 2004 LRDP Amendment. Readers should review this document in conjunction with the 2004 FEIR, which contains a full analysis of all of the potential environmental impacts of the original project proposed by the 2004 LRDP Amendment.

Although Addendums are not required to be circulated for public or agency comment pursuant to CEQA, UCSB desires to obtain public and agency comment regarding the proposed revisions to the 2004 LRDP and this Addendum, and therefore is circulating this Addendum for public comment for a period of 20 days between March 30, 2006 and April 18, 2006 after giving notice of its availability for public and agency review in accordance with the procedures set forth in Section 15072 of the CEQA Guidelines.

#### 1.1 PROJECT INFORMATION

**Project Title and Number**: Faculty and Family Student Housing, Open Space Plan,

and LRDP Amendment

**Lead Agency Name and Address**: University of California, Santa Barbara, Office of

Campus Planning and Design, CA 93106-1030

Contact Person and Phone Number: Shari Hammond (805) 893-3796

**Project Location**: University of California, Santa Barbara

**Project's Sponsor's Name and Address**: University of California, Santa Barbara, Office of

Campus Planning and Design, Santa Barbara, California,

93106-2030

Custodian of the Administrative Record: University of California, Santa Barbara, Office of

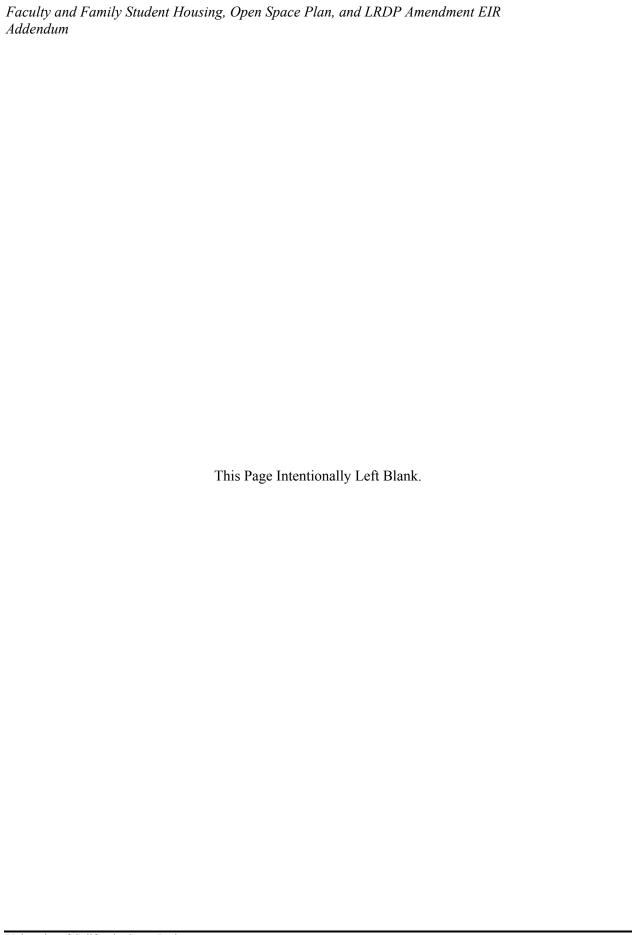
Campus Planning and Design

# 1.2 SUMMARY OF NEW INFORMATION AND REVISIONS TO PROPOSED PROJECT

Subsequent to The Regents approval of the 2004 LRDP Amendment and certification of its accompanying Final EIR, California and the Santa Barbara area experienced a year of abnormally heavy rainfall (the second largest amount of rainfall recorded). Updated wetland delineations of the North Parcel and the South Parcel have been prepared (WRA 2006), which indicates that the wetland/upland characteristics of these areas have changed. Some areas previously reflecting wetland characteristics no longer exhibit wetlands characteristics. Other areas previously identified as upland now exhibit wetland characteristics. The 2006 wetland delineation prepared by WRA identified 0.92 acres of wetland on the North Parcel, in comparison to 1.52 acres of CCC wetlands on the North Parcel that would be directly impacted by residential development identified by WRA in 2004 based upon functional analysis prepared for the North Parcel delineation by Padre Associates in 2000. On the South Parcel 0.39 seasonal wetlands and 0.69 semi-perennial wetlands, totaling 1.08 acres were identified by WRA in 2006 in comparison to 2.93 acres identified in a 2000 wetland delineation by Padre Associates (Padre 2000). As discussed below, as part of the revised project, UCSB proposes to retain, restore and enhance all areas of the North Parcel constituting California Coastal Act wetlands.

Proposed changes to the 2004 LRDP Amendment include a revised site plan prepared in response to new wetland data for the North Parcel Faculty and Family Housing project (WRA 2006). Proposed revisions to the project reduce by 47 the number of new structures to be constructed on the North Parcel, resulting in 21 fewer faculty housing units. By reconfiguring the site plan, all Coastal Act wetlands will be preserved and protected by buffer areas and the University's project objective of providing much needed affordable faculty housing is met. The revised project also includes more detailed engineering plans that were prepared after release of the 2004 LRDP Amendment EIR for the arch-culvert structure over Devereux Creek where the creek discharges into Devereux Slough.

UCSB now considers the original Faculty Housing project approved in the 2004 LRDP Amendment to be a feasible alternative to the revised project (which, on the basis of the 2006 wetlands delineation, would result in the removal of 0.92 acres of Coastal Act wetlands (a 0.6-acre decrease from that analyzed in the 2004 FEIR). All other project elements in the 2004 FEIR are unchanged. The new information and revisions to the project are discussed below in further detail.



#### 2.0 DESCRIPTION OF CHANGES TO LRDP AMENDMENT

#### 2.1 PROPOSED REVISIONS TO THE 2004 LRDP AMENDMENT

### 2.1.1 Proposed Text Changes

The 2004 FEIR for Faculty and Family Student Housing, Open Space Plan, and LRDP Amendment analyzed the construction of 236 units of faculty housing on North Parcel of North Campus (refer to Figure 2.1). The faculty housing was proposed to include a complex of 120 structures. The proposal included 12 single family homes, 8 three-story townhomes (23 units), and 78 two-story buildings – 50 duplex/triplex structures (120 units), 14 townhomes (67 units), and 14 studio-above-garage units. The proposal also included 22 one-story detached garage buildings, located behind the two-story townhomes. Construction of the 2004 LRDP Amendment project would necessitate the grading of approximately 23 acres of the 26.3 acre property and the destruction of 1.52 acres of wetlands.

Since the adoption of the 2004 FEIR the proposed North Parcel faculty housing project site plan has been revised to preserve all Coastal Act wetlands (0.92 acres total – a 0.6-acre decrease from that analyzed in the 2004 FEIR), while meeting the University's objective of providing much needed affordable housing to its faculty. As revised, the North Parcel site plan eliminates 47 structures (from 120 to 73), and includes 21 fewer faculty housing units (215 total). The revised plan also reduces construction-related grading and site disturbance by up to 7.8 acres (15.2 acres total as compared to the originally proposed 23 acres). Three fewer single-family detached homes (9 total) are proposed, and the number of two-story buildings has been decreased from 78 to 15, consisting of 8 courtyard duplexes (17 units), 3 studio-above-garage units, and 4 townhomes (19 units). Four single-story detached garages are associated with the 4 two-story townhomes (reduced from 22). Twenty-five three-story townhomes (87 units) and 20 mixed two/three level fourplex structures (80 units) are also proposed.

The maximum building height analyzed in the 2004 FEIR would not change (35 feet). Approximately 0.92 acres of coastal wetlands/vernal pools would be avoided and protected by buffers ranging from 25 to 100 feet. Buffer zones and wetlands would be restored pursuant to a Sensitive Habitat Restoration Plan (SHRP), including a 50-foot riparian buffer zone associated with Phelps Ditch. In addition, a description of the Devereux Creek culvert, including areas of disturbance and project elements has been added.

#### 2.1.2 Coastal Act Element Policy Additions

The Coastal Act Element of the LRDP Amendment is based on the Coastal Act Element of the 1990 LRDP and supersedes the LRDP policies pertaining to development and open space preservations on the North and West Campuses. The LRDP is being amended to ensure that appropriate policies are adopted for the North Campus, which was not addressed in the 1990 LRDP. Amended and added Coastal Act Element policies to the 2004 Draft LRDP Amendment include the following:

A bicycle path shall be provided from the Cameron Hall parking lot north onto the West Campus Apartments site on the existing roadway immediately north of the existing fence between West Campus Apartments and Devereux Slough, and the existing pedestrian and equestrian trail shall be realigned to the east away from the edge of the slough along Devereux Road, and immediately south of the existing fence between West Campus Apartments and the Devereux Slough. A pedestrian connector trail between the pedestrian/equestrian trail and Devereux Road shall be constructed with steps to discourage use of this trail by bicyclists and equestrians.

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30210.24 The public coastal access parking areas shall be paved with a permeable surface.

30240(b).22 The Devereux Creek bridge that will replace the existing Arizona crossing shall have a minimum five-foot clearance above the stream channel bed and would span across Devereux Creek that will restore more natural flows to the Devereux Slough while reducing existing sedimentation and flood impacts. The creek bed shall remain earthen except where periodic grade stabilizers are necessary upstream.

The University shall implement in phases the initial improvements identified in the University's portion of the Open Space and Habitat Management Plan. The initial improvements shall include coastal access parking, trails, and other improvements, as well as completion of a project on the South Parcel to control existing erosion and sediment transfer into the Devereux Slough. Such project shall include four (4) acres of land area, including the eastern-most vegetated drainage swales, check dams and sedimentation pond(s) depicted in Figure 8 Illustrative Concept for South Parcel Nature Park of the Open Space and Habitat Management Plan. This project shall be in addition to the restoration and enhancement of buffer areas on the North Parcel.

Wetland areas on the North Parcel identified in WRA 2006 shall be retained, and restored and/or enhanced.

30230.4 Buffers to wetland areas identified in the WRA 2006 and the Phelps Creek Riparian Area on the North Parcel shall be provided in substantial accordance with the site plan for North Parcel development as follows. Buildings shall be required to be set back a maximum of 25 or 50 feet from wetland areas as shown, and 50 feet from the Phelps Creek Riparian Area top of bank; provided, however, that buildings shall be required to be set back 100 feet from the Wetland Area located near the southwest corner of the North Parcel site (within and near Devereux Creek). Buffer areas shall be vegetated with local native riparian, wetland, and other appropriate species; provided that pedestrian and bicycle paths may be located within buffer areas. Buffer areas shall not be improved with impervious pavement or night lighting (except where necessary for public safety along roadways or adjacent pedestrian sidewalks). To the extent reasonably feasible, trails shall be located within the outside edge of buffer areas. Trails within buffer areas shall be adequately marked, signed and fenced to restrict access to the rest of the buffer area. In addition, Open Space Plan Type B and C trails shall be for pedestrian use only and no more than five feet in width. All buffer areas shall be maintained by the University through the Cheadle Center for Biodiversity and Ecological Restoration (CCBER) or, in the event CCBER no longer is responsible for maintaining campus wetland areas, a successor entity responsible for such functions. To offset the reduction of buffer area pursuant to this policy, the University shall restore and enhance natural open space area on a 1:1 basis for buffer area which is reduced below from a base area defined as the area within 100 feet from a wetland area in WRA 2006. Such restoration and enhancement areas may be provided within the natural open space area anywhere within the North Parcel, the eastern tributary to Devereux Creek, or the South Parcel. A plan for restoring and enhancing these areas shall be submitted to and approved by the California Coastal Commission, and shall be implemented concurrently with occupancy of the units constructed on the North Parcel.

<u>30230.5</u> Portions of buffer areas, Semi-Private Natural Landscape Areas, may be fenced and enclosed to provide privacy protection for homes adjacent to trails. Semi-Private Natural Landscape Areas may extend no more than 25 feet into any buffer area and shall be

landscaped with local native vegetation maintained by the University through the CCBER or, in the event CCBER no longer is responsible for maintaining campus wetland areas, a successor entity responsible for such functions. Individual homeowners may use and access the Semi-Private Natural Landscape areas behind their own unit provided that they shall not use such areas in a manner that would alter or modify their landscaping, or that would negatively impact the function of the buffer area. Restrictions on use shall be included in the CC&R's for the homeowners. Annual monitoring reports on buffer management shall be prepared by CCBER and made available to the public.

30230.6

Reduced Buffer Areas for Roads and Sidewalks. Roadways and pedestrian sidewalks comprised of permeable paving materials may be located within Buffer Areas between the wetland areas on the North Parcel for vehicular and pedestrian access provided that such roadways and sidewalks maintain the maximum feasible setback from the limits of such Wetland Areas.

30230.7

The wetland areas identified in the WRA 2006 and Phelps Creek Riparian Area on the North Parcel shall be interconnected with Natural Open Space Areas to the extent reasonably feasible. Grading to connect the wetland areas within or near buffer areas shall be permitted; however, any such grading shall be limited to the dry season and approved by the University through the CCBER or, in the event CCBER no longer is responsible for maintaining campus wetland areas, a successor entity responsible for such functions.

30230.8

The Phelps Creek Riparian Area may be relocated and reconstructed in accordance with Policies 30231.1 and 30231.3 and all other applicable LRDP policies. The Phelps Creek Riparian Area and native vegetation shall be maintained by the University through the CCBER or, in the event CCBER no longer is responsible for maintaining campus wetland areas, a successor entity responsible for such functions. The County of Santa Barbara Flood District shall continue to maintain Phelps Creek as a floodway and a maintenance easement to that effect will be granted by the University. The primary function of Phelps Creek will continue to remain as a floodway and the channel will be maintained per County standards to ensure proper flood conveyance capacity. Maintenance agreements will be made to perform major maintenance activities (i.e. dredging) outside the breeding season of any known sensitive species that have been observed in the Creek. The University shall not concretize the Phelps Creek Riparian Area. All pads adjacent to the Phelps Creek Riparian Area will be located two (2) feet above the 100-year flood elevation.

30230.9

A road limited to flood control and emergency access and pedestrian and bicycle purposes only may be provided to the Phelps Creek Riparian Area through the Buffer Area provided that the road is no more that 16 feet in width, is not paved, and is located on the opposite side of the Phelps Creek Riparian Area from any Semi-Private Natural Landscape Areas located within the Buffer Area, and situated away from the Phelps Creek top of bank to the maximum extent feasible while still providing adequate flood control access. If necessary, vegetated spurs are acceptable from the road to the top of bank, to provide access for flood control.

30230.10

A paved bridge, and a paved roadway comprised of permeable paving materials, may be located across the Phelps Creek Riparian Area and within the buffer area for pedestrian/bicycle and flood control and emergency access, provided that such bridge is

no wider than 20 feet, however, the bridge may be expanded if necessary to provide fire access to all residential units.

- Site drainage on the North Parcel conveying runoff to Phelps and Devereux Creeks shall be directed through the bioswales or using other similar integrated stormwater management practices that allow or mimic natural drainage hydrology functions to provide natural infiltration and filtration. Stormwater best management practices shall be utilized to reduce runoff, control sources of pollution, and treat runoff prior to conveyance to local streams or creeks. Piping of stormwater shall be permitted to cross under roadways and sidewalks.
- Areas improved as Natural Open Space Areas on the North Parcel shall be vegetated with native species of local genotype, appropriate to habitat type, such as riparian, wetland, and coastal sage scrub plant community, and shall be maintained by the University through the CCBER or, in the event CCBER no longer is responsible for maintaining campus wetland areas, a successor entity responsible for such functions.
- Private landscape areas (not including buffers or semi-private natural landscape areas) and community open space areas on the North Parcel shall require use of Integrated Pest Management techniques and, with the exception of lawn areas, shall not include nonnative invasive plant species. These requirements shall be included in the CC&Rs for the private areas. The CC&Rs shall refer property owners to the California Invasive Plant Council list (cal-ipc.org) and California Native Plant Society, Channel Islands Chapter.
- Upon the completion and sale of the first 72 North Parcel housing units, the University shall provide, on an ongoing basis, for one full-time equivalent (FTE) steward for the South Parcel nature park area, and a full-time equivalent Coal Oil Point Reserve Snowy Plover Coordinator position.
- New development adjacent to the required 100-foot building setback surrounding the upland limit of the wetland shall not result in significant adverse impacts due to additional sediment, nutrients, pollutants, and other disturbants disturbances. (1980 LRDP Amended 2006)

FIGURE 2.1



University of California, Santa Barbara

Not to Scale

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Jniversity of California,	Santa Barbara					

#### 2.2 REVISED NORTH CAMPUS FACULTY HOUSING

The North Campus Faculty Housing project will reduce the number of housing units from 236 to 215 on the North Parcel of the North Campus, north of the Ocean Meadows Golf Course (refer to Figure 2.2). The site is designed with buffers ranging from 25 to 100 feet around identified Coastal Act Wetlands. The project will provide a range of housing types and sizes in a total of 73 buildings (reduced from 120) including: 80 units in 20 mixed two/three-story four-plex townhomes; 87 units in 25 three-story townhomes; 19 two-story units in 4 townhomes with 4 associated single-story detached garages; 17 units in 8 courtyard duplexes;; 3 two-story studio units, and; 9 detached single-family homes.

Proposed housing would include a mixture of one- to three-bedroom units, in one- to three-story buildings. Unit sizes will range from approximately 900 square feet for a studio; 1,050 square feet for a townhome, 1,500 square feet for a courtyard home, and 2,160 square feet for a detached, single-family home. The average unit size would include 1,530 gross square feet of living space.

Project building heights will be consistent with adjacent development, with one- or two-story units located along Marymount Way and two-story courtyard units opposite the Cannon Green townhomes. The taller three-story townhome units will be located toward the interior of the site, setback from existing development. No structure will exceed 35 feet in height. In addition to the residential units, the complex will include a 1,800 square-foot community recreation facility consisting of a common building, swimming pool, and turf area.

*Vehicular Access and Circulation*. Vehicular access to the western portion of the site will be provided via Phelps Road at the intersection with Cannon Green Drive. Access to the new Coastal Access parking lot will be provided from the entry road to the Faculty Housing site. Vehicular access to the area east of Phelps Ditch will be provided via Marymount Way. Internal vehicular circulation will be accommodated on a system of streets and lanes.

Street Design. The widths of internal streets and lanes will be narrow to serve as traffic calming measures that will help slow traffic and encourage bicycling and walking. The narrower road widths will also reduce amount of impervious surfaces which will reduce stormwater runoff. Streets have a 40-foot cross-section consisting of two 12-foot wide traffic lanes with 8-foot wide parking pullouts on each side. Planted bioswales will border the main entry roadway and other interior streets where possible acting as a buffer to 5-foot wide sidewalks. Lanes will have a 24-foot cross-section consisting of two 9-foot lanes bordered on each side by 3-foot strips of grassed paving and recessed concrete curbing draining to bioswales.

Parking. Each unit (except studio units) will have two parking spaces, with a minimum of one garage space and one adjacent carport or uncovered space. Studio units will have one garage space. One-car garage spaces will be a minimum of 12 feet by 22 feet interior wall-to-wall dimensions. Single-family residences will have two-car garages, minimum of 20 feet by 22 feet. Sixty-five guest parking spaces will be situated along the Village Center streets and in pocket lots throughout the site. Twenty public coastal access parking spaces will be provided in a separate lot southeast of the Phelps Road entrance.

Pedestrian Circulation. Pedestrian circulation will be accommodated on a network of pedestrian paths and sidewalks along the Village Center streets. This internal circulation plan incorporates several perimeter connections to surrounding open space and coastal access trails. A pedestrian, bicycle, and emergency access bridge over Phelps Ditch will connect the two portions of the site separated by the ditch and will link to a trail corridor along the southern edge of the project, providing improved coastal access between the existing Marymount neighborhood to the Windrow coastal access trail (refer to Figure 2.3).

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The pedestrian and bicycle bridge has been relocated further north on Phelps Ditch than in the 2004 FEIR to avoid impact to identified wetlands.

Recreation Amenities. The project will include a 1,800 square-foot centralized community building intended for flexible indoor and outdoor activity space. The building will contain a main gathering space with the ability to hold approximately 50 persons, adjacent meeting/office rooms, and a small catering kitchen. A minimum 20-foot by 40-foot pool and spa will be situated adjacent to the community building and share accessible restrooms. Open space will be provided around the community building/swimming pool complex to complement the use of the building and provide gathering space for community events. Other amenities at the community center will include a barbecue, covered picnic area, and tot lot. This facility is essentially the same as proposed in the 2004 LRDP Amendment.

*Grading.* Development and grading will occur on approximately 15.2 of the 26.3 acres on the North Parcel (7.8 acres less than the 2004 LRDP Amendment proposal analyzed in the 2004 FEIR), with existing wetlands protected by 25- and 50-foot buffers, and an area of native grassland located off of the development site near the southwestern corner of the parcel to be preserved.

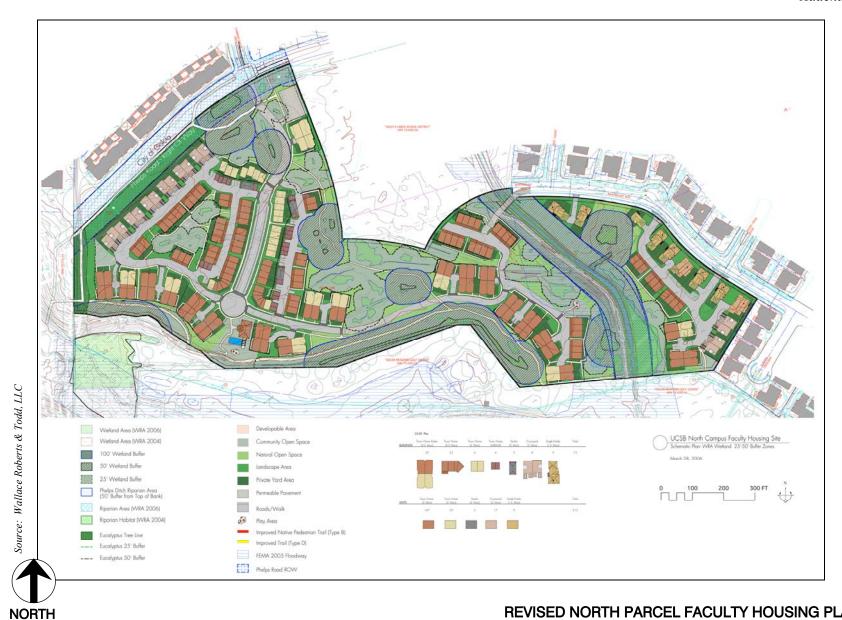
Stormwater Management. A number of design features are proposed for the development to reduce the rate and volume of surface runoff, protect water quality, and support seasonal wetlands. Vegetated filter strips, porous pavements, and other pervious areas will be incorporated into the site design to minimize runoff associated with the increase in impervious surfaces resulting from the proposed development. Surface runoff will be conveyed via curbs, gutters, catch basins, storm drains and vegetated channels, into bioswales strategically integrated into the site plan and wetland buffer zones. The bioswales will be planted with native wetland plant species and will treat water prior to discharging into existing and preserved wetlands. Where insufficient space is available for bioswales, other water quality treatment options will be considered including hydrodynamic separators, treatment inserts and filter media prior to discharging into the existing wetlands.

*Utilities.* Water service will be provided by the Goleta Water District, which recently released a potable water entitlement to the University that will be sufficient to serve the new residential development. Wastewater will be collected through a nearby Goleta West Sanitary District trunk line and will be treated by the Goleta Sanitary District's Wastewater Treatment Plant. Electrical service will be provided by Southern California Edison, which already services the rest of the University. Natural gas service will be provided by the Southern California Gas Company through one- or two-inch line extensions from nearby existing facilities. Solid waste hauling will be provided by Marborg, Inc. under contract from the University, and the destination landfill has adequate capacity to serve the development.

*Phelps Ditch*. There would be no modifications to Phelps Ditch as stated in the 2004 FEIR. The portion of Phelps Ditch that traverses the eastern portion of the site will remain intact. A portion of the project's storm water runoff will discharge into the Ditch, after passing though a series of water quality treatment features. As required by law, a storm water pollution prevention plan will be implemented on the site, reducing run-off impacts.

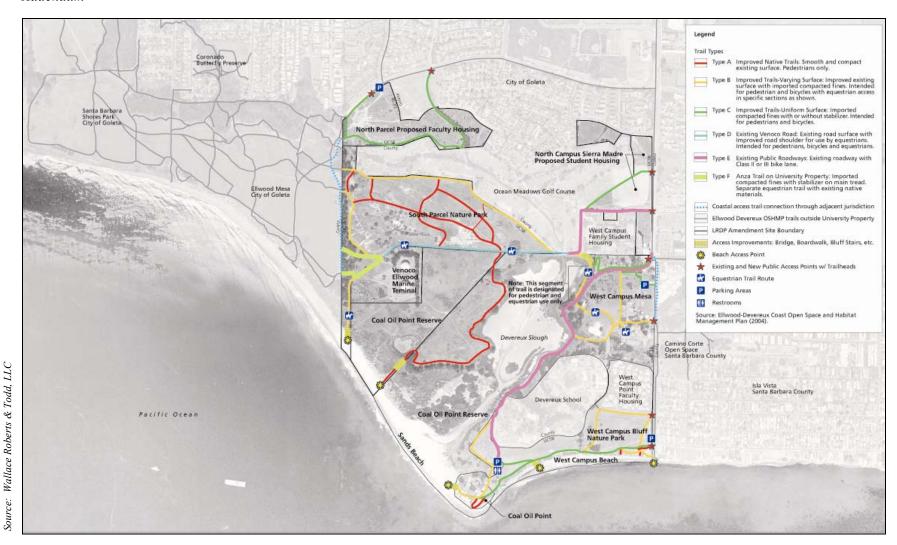
#### 2.3 SENSITIVE HABITAT RESTORATION PLAN

• A Sensitive Habitat Restoration Plan (SHRP) for the North Parcel Faculty Housing project will guide the restoration and enhancement of riparian and wetland buffer plant communities (including rare plant habitat areas) present within the proposed wetland buffer zones established for the Faculty Housing project. The SHRP also addresses revegetation of constructed swales within and outside the wetland buffer zones, and provides for on-going maintenance and protection of existing wetland and restored wetland buffer plant communities.

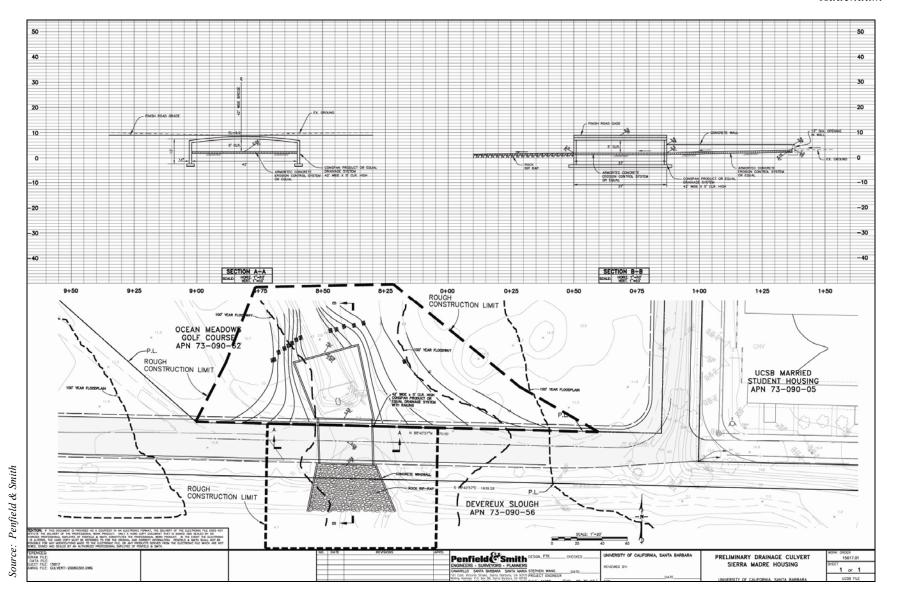


REVISED NORTH PARCEL FACULTY HOUSING PLAN FIGURE 2.2

Not to Scale







DEVEREUX CREEK CULVERT FIGURE 2.4 Implementation of the SHRP will result in restoration and enhancement of approximately 11 acres of wetland buffer habitat, 0.92 acres of existing wetlands on the north, northeast, central, southern border, and eastern portions of the North Parcel site, and 0.77 acre of riparian habitat in Phelps Ditch. Implementation, maintenance, and monitoring of the SHRP will be conducted by the UCSB Cheadle Center for Biodiversity and Ecological Restoration (CCBER).

# 2.4 DEVEREUX CREEK CULVERT

The 2004 LRDP Amendment proposed to remove the existing 36-inch diameter concrete culvert passing through a concrete summer crossing and directly upstream an existing concrete sediment trap with a 12-inch diameter opening located at the Venoco Road/Devereux Creek crossing adjacent to the southern perimeter of the Ocean Meadows Golf Course. UCSB proposes to replace the weir with a pre-fabricated 42-foot span bridge/arched-culvert structure, 37-foot wide by 5-foot high (refer to Figure 2.4). The proposed replacement would lower the water surface elevation at the culvert by 1.07 feet during a 100-year flood event. Additional concepts associated with the culvert would include:

- A drop structure basin constructed upstream of the culvert to capture sediment and pollutants.
- An energy dissipation structure, of a non-grouted interlocking concrete system, downstream of the culvert to preserve and reduce flow velocities prior to discharge into the slough
- Grading upstream and around the drop structure to allow accommodation of peak flows and enhancement of riparian habitat
- Grading downstream of the energy dissipation structure to minimize disruption of the slough during high flood flows
- A 37-foot wide access road connecting the South Parcel with the existing West Campus Family Student Housing Complex would be constructed over the culvert
- Grade stabilizers consisting of un-grouted rock or an interlocking concrete block system will be utilized under the bridge and in the floor of the sediment basin to reduce scour and promote riparian vegetation restoration.

#### 2.5 PROJECT ALTERNATIVES

#### 2.5.1 Alternative 3

In 1998, The Regents approved a project to develop 147 units of faculty housing on the North Parcel, 122 units of faculty housing on the South Parcel, and 144 units of student housing on the Storke-Whittier Parcels, for a total of 413 units. This alternative is analyzed as Alternative 3 in the Project EIR. It is substantially consistent with Goleta Community Plan approved by the Coastal Commission in 1994 (which designated the South Parcel as "suitable for medium density development" (122 units)). The Goleta Community Plan assigned three land use designations to the South Parcel: (1) Area for Potential Development; (2) Environmentally Sensitive Habitat Area; and (3) Open Space (buffer) Area.

In January 2006 WRA, Inc. conducted a new delineation study on the South Parcel to describe the location and extent of any wetlands and riparian habitats. Approximately 1.51 acres of riparian habitat was identified and a total of 2.54 acres were determined to be wetlands under the California Coastal Act definition (WRA 2006). A revised conceptual site plan for South Parcel was prepared using the updated wetland information with 207 units of faculty housing with 100-foot buffers from all wetlands (Figure 2.5). The revised conceptual site plan indicates that all proposed development under Alternative 3 would

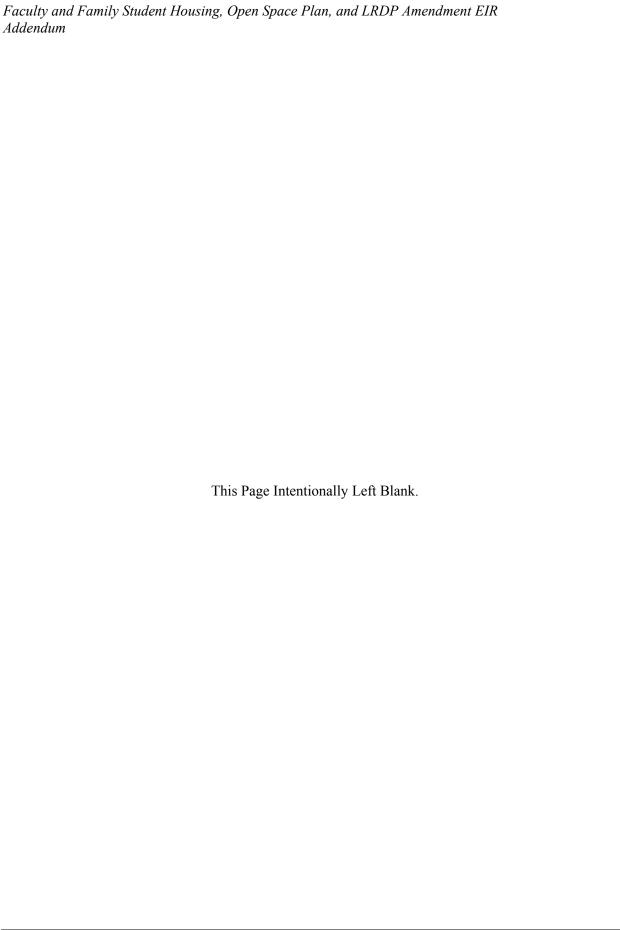
remain in the portions of the South Parcel designated as "Area for Potential Development" by the Goleta Community Plan.

#### 2.5.2 Alternative 1

A second alternative (Alternative 1) was also analyzed in the EIR, which is also substantially consistent with the Goleta Community Plan. Alternative 4 assumes that the North Parcel would be retained as undeveloped property, and that 207 units of faculty housing would be developed on the South Parcel (of the North Campus), and 151 units of family student housing would be developed on the Storke-Whittier Parcel. A revised conceptual site plan reflecting the updated wetland information for the South Parcel indicates that all proposed development under Alternative 1 would remain in the portions of the South Parcel designated as "Area for Potential Development" by the Goleta Community Plan.

#### 2.5.3 Alternative 4

A third alternative (Alternative 4) was also evaluated in the 2004 LRDP Amendment FEIR. Alternative 4 includes developing 236 units of faculty housing on North Parcel, 207 units of faculty housing on South Parcel, and 151 units of family student housing on the Storke-Whittier Parcel. Based on the new wetland data for both north and south parcels an updated plan has been prepared which restricts South Parcel Development to the "Area for Potential Development" designated by the Goleta Community Plan and which provides a 100-foot buffers to all wetlands.. This alternative would develop 70 units of faculty housing on the North Parcel, 207 units of faculty housing on the South Parcel and the same 151 units of family student housing on the Storke-Whittier Parcel. A conceptual site plan for north and south parcel development is shown in Figure 2.6.







SOUTH PARCEL ALTERNATIVE SITE PLAN FIGURE 2.5

University of California, Santa Barbara



NORTH Not to Scale **ALTERNATIVE SITE PLAN** 

FIGURE 2.6

#### 3.0 EVALUATION OF ENVIRONMENTAL IMPACTS

Environmental factors potentially affected by the 2004 LRDP Amendment project were analyzed in the 2004 FEIR. All issue areas were re-analyzed as a result of project revisions.

#### 3.1 **AESTHETICS**

The revised Faculty Housing project site plan proposes the construction of 73 structures on the North Parcel - 47 fewer than analyzed in the 2004 FEIR. Twenty-five three-story buildings (increased from 8), 16 two-story buildings (reduced from 78), 9 single family homes (reduced from 12), and 4 single-story garages (reduced from 22) are proposed. In addition, 20 mixed two/three story buildings are proposed.

The maximum building height would remain 35 feet. The 2004 FEIR assessment of the 2004 LRDP Amendment determined that development of the North Parcel would partially block views of the Santa Ynez Mountains (which are not considered scenic vistas) as seen from the southern perimeter of the North Parcel and Ocean Meadows Golf Course, and that development of the North Parcel would change the visual character of the existing parcel from disturbed/undeveloped to urbanized, and the visual compatibility between proposed uses and adjacent land uses could occur. However, with the incorporation of policies and mitigation measures identified in the 2004 LRDP Amendment and 2004 FEIR, The Regents concluded that all potential aesthetic impacts would be reduced to a *less-than-significant* level.

The proposed revisions to the North Faculty Housing project will not result in any new significant impacts, or a substantial increase in the severity of previously identified potentially significant effects analyzed in the 2004. The height limit of all new structures will continue to be limited to 35 feet. Most three-story units will be set back from nearby existing development by intervening two-story units (Figure 2.4) and will not be significantly visible from adjacent development. As analyzed in the 2004 FEIR, development of the North Parcel would partially block views of the Santa Ynez Mountains (which are not considered scenic vistas) as seen from the southern perimeter of the North Parcel and Ocean Meadows Golf Course, and development of the North Parcel would change the visual character of the existing parcel from disturbed/undeveloped to urbanized, and the visual compatibility between proposed uses and adjacent land uses could occur. The increase in three-story units will change the character of development that is visible but will not result in obstruction of scenic vistas or other adverse aesthetic effects. No new mitigation measures are necessary. With the policies and mitigation measures adopted pursuant to the 2004 FEIR and 2004 LRDP Amendment, potential aesthetic impacts will continue to be reduced to *less-than-significant*.

#### 3.2 AGRICULTURAL RESOURCES

No agricultural resources are located on or adjacent to the proposed project site. Implementation of the proposed revisions to the LRDP Amendment would not affect the 2004 FEIR agricultural resources analysis, and no additional analysis is necessary.

#### 3.3 AIR OUALITY

Proposed changes to the 2004 LRDP Amendment include 21 fewer units of faculty housing on the North Parcel in 47 fewer structures. The proposed area of disturbance for construction of the faculty housing project would be up to 15.2 acres, approximately 7.3 acres less than the proposed area of disturbance assessed in the certified 2004 FEIR (22.5 acres). Based on new data and clarifications, the Devereux Creek culvert project would result in the disturbance of approximately 36,380 square feet. The 2004

FEIR concluded that development on the North Parcel would not conflict with Santa Barbara County's Clean Air Plan, would not create objectionable odors, would result in a *less-than-significant* impact to sensitive receptors associated with toxic air emissions or air pollutant concentrations. The revised project does not change the 2004 certified FEIR analysis of these project elements and no additional analysis is necessary.

The 2004 FEIR also concluded that emissions from increased vehicle trips associated with the occupancy of the new residential units on the North Parcel would exceed Santa Barbara Air Pollution Control District (SBAPCD) thresholds and would result in a cumulatively considerable net increase of criteria pollutants for which the project region is in non-attainment. While the revised project would reduce the number of housing units by 21, the reduction does not significantly affect the previous 2004 FEIR analysis. Accordingly, no additional analysis is necessary, and the potential air quality effects of the revised project would remain *significant and unavoidable* as determined by The Regents in its certification of the 2004 FEIR and approval of the 2004 LRDP Amendment.

The 2004 FEIR further concluded that with the implementation of identified mitigation measures the 2004 LRDP Amendment project would result in a less-than-significant air quality impact associated with the generation of construction-related soil disturbances. The revised site plan reduces the number of proposed new structures by 47, and will disturb up to 7.3 acres less than analyzed in the 2004 FEIR. Therefore, no additional analysis or mitigation measures are necessary, and with the policies and mitigation measures adopted pursuant to the 2004 FEIR and 2004 LRDP Amendment, the potential construction-related soil disturbance impacts of the revised project will continue to be reduced to a *less-than-significant* level.

#### 3.4 BIOLOGICAL RESOURCES

Proposed changes to the 2004 LRDP Amendment include implementation of additional Coastal Act Element Policies (discussed in Section 2.1.2) and a revised site plan prepared in response to new wetland data for the North Parcel Faculty and Family Housing project (WRA 2006). The 2006 wetland delineation prepared by WRA identified 0.92 acres of California Coastal Commission wetlands on the North Parcel, in comparison to 1.52 acres identified by WRA in 2004 based upon functional analysis prepared for the North Parcel delineation by Padre Associates in 2000. The 2004 LRDP Amendment proposed removal of 1.52 acres of seasonal wetlands/vernal pools on the North Parcel. The 2004 FEIR determined that the seasonal wetlands/vernal pools on the North Parcel (excluding the saltmarsh near the southwest corner of the parcel) have low functional value, and do not qualify as Environmentally Sensitive Habitat Areas ("ESHA"). Although the FEIR determined that these habitats have low value, the proposed 1.52 acre loss was considered a significant impact, and mitigation measures were adopted that reduced the impact to a *less-than-significant* level through wetland restoration and creation activities. The 2004 FEIR also assessed proposed modifications to the Phelps Ditch riparian corridor, which is a designated ESHA, and concluded that the 2004 LRDP Amendment project would result in a potentially significant loss of 0.77 acres of riparian habitat and indirect impacts to sensitive aquatic habitats including sediment and pollutant discharge, change in drainage patterns, and inadvertent human disturbance. However, with the incorporation of mitigation measures identified in the 2004 FEIR, The Regents concluded that the impact would be reduced to a *less-than-significant level*.

The 2004 FEIR also concluded that the 2004 LRDP Amendment project would result in adverse impacts to special-status plant and wildlife species, including southern tarplant, and foraging habitat for Cooper's hawk, sharp-shinned hawk, and loggerhead shrike. Within the Devereux Slough, the 2004 FEIR concluded that the 2004 LRDP Amendment construction would result in construction and noise impacts to the following species within the Devereux Slough and Devereux Creek: tidewater goby (*Eucylogobius newberryi*), a Federal Endangered and California Species of Special Concern; southwestern pond turtle

(Clemmys marmorata pallida), a California Species of Special Concern; two-striped garter snake (Thamnophis hammondii), a California Species of Special Concern; light-footed clapper rail (Rallus longirostris levipes), a Federal Endangered, California Endangered, and Fully Protected species; nesting Belding's savannah sparrow (Passerculus sandwichensis beldingi), a California Endangered species; California least tern (nesting) (Sterna antillarum browni), a Federal Endangered, California Endangered, and Fully Protected species; short-eared owl (Asio flammeus), a California Species of Special Concern; Western red bat (Lasiurus blossevillii), a California Species of Special Concern; and Yuma myotis (Myotis yumanensis), a Federal Candidate and California Species of Special Concern. With the incorporation of policies and mitigation measures included in the 2004 LRDP Amendment and 2004 FEIR, The Regents concluded that all potential biological resource impacts would be reduced to a less-than-significant level.

Proposed changes to the 2004 LRDP Amendment include a revised site plan prepared in response to new wetland data for the North Parcel Faculty and Family Housing project (WRA 2006). The 2006 WRA wetlands delineation report identified and mapped numerous small seasonal wetland areas totaling 0.92 acre located in the north, northeast, central, southern border, and eastern portions of the North Parcel site, and 0.77 acre of riparian areas associated with Phelps Ditch. The wetland areas present consist of small, hydrologically unconnected depressional areas, and several shallow man-made swales that trend generally east to west across the site. The swales are poorly defined and vary in width, depth, and continuity. One swale drains into Phelps Ditch, while the other swales are discontinuous, beginning and ending within the site. The seasonal wetland areas on the site "were determined to be of relatively recent origin due to human-made disturbances such as excavation, heavy foot traffic, and vehicle movement through the site" (WRA 2006).

Based on the design of the revised project, which is consistent with the proposed LRDP Amendment to include additional Coastal Act Element Policies (discussed in Section 2.1.2), all seasonal wetlands on the North Parcel (0.92 acres), and riparian areas associated with Phelps Ditch (0.77 acres) would be avoided and protected. The revised project is also designed to protect seasonal wetlands/vernal pools riparian, southern tarplant, and Santa Barbara honeysuckle habitat by 25 and 50-foot buffers. The saltmarsh located near the southwest corner of the development site would be protected by a 100-foot buffer. Proposed buffers were developed based on the wetland values identified in the Wetland Functional Assessment (WRA 2004) and results of the Wetlands Delineation report (WRA 2006). The wetlands and proposed buffer areas would be enhanced and restored through implementation of a SHRP as part of project construction. Wetland resources and associated buffer zones are grouped into five restoration zones totaling approximately 11 acres. No high value wetlands were identified within the project boundaries, and low to intermediate value wetland areas will provide 50 or 25-foot buffers, with the inner edges located within large, contiguous buffer preserves to provide significantly improved functions and values following restoration. The project, as revised in accordance with the proposed LRDP Amendment to include additional Coastal Act Element Policies (discussed in Section 2.1.2), will preserve and protect all wetlands identified in the 2006 WRA delineation on the North Parcel (0.92 acres) and riparian areas associated with Phelps Ditch (0.77 acres). Therefore, no additional analysis or mitigation measures are necessary, and the potential impacts of the revised project on wetland and riparian areas will continue to be *less-than-significant*.

Potential biological resource impacts from construction activities associated with the Devereux Creek culvert, including affected sensitive habitat, special-status species, and discharge of pollutants into the Devereux Slough, are identified in the 2004 FEIR. Since the preparation of the 2004 FEIR the design of the culvert has been refined, and would result in temporary impacts to 13,260-square feet of coastal saltmarsh and 23,100 sq. ft. or riparian or wetland vegetation, and 6,530 sq. ft. would be permanently converted to a structural use. These clarifications are within the scope of impacts analyzed in the 2004

FEIR and would not result in any new adverse impacts or a substantial increase in the severity of previously identified 2004 FEIR impacts, which concluded that long-term improvements to the creek and slough discharge point would be beneficial due to restoration activities and operation of the sediment trap. Therefore, no additional analysis or mitigation measures are necessary, and with the policies and mitigation measures adopted pursuant to the 2004 FEIR and 2004 LRDP Amendment, and the additional Coastal Act Element Policies (discussed in Section 2.1.2), the potential construction-related disturbance to biological resources in Devereux Creek will continue to be *less-than-significant*.

The revised project is also designed to avoid modifying Phelps Ditch consistent with the proposed additional Coastal Act Element Policies (discussed in Section 2.1.2). The portion of Phelps Ditch that traverses the eastern portion of the North Parcel will remain intact. A portion of the project's storm water runoff will discharge into the Ditch, after passing though a series of water quality treatment features. As required by law, a storm water pollution prevention plan will be implemented on the site, reducing run-off impacts. Restoration activities within the 50-foot buffer zone would include revegetation with cottonwood-sycamore riparian woodland. Accordingly, no additional analysis or mitigation measures are necessary, and with the policies and mitigation measures adopted pursuant to the 2004 FEIR and 2004 LRDP Amendment, the potential construction-related disturbance to biological resources in Devereux Creek will continue to be *less-than-significant*.

# 3.5 CULTURAL RESOURCES

The 2006 Revised Draft LRDP Amendment is similar to the project proposed in the 2004 LRDP Amendment, and is in substantial conformance with the assessment of cultural resources in the certified 2004 FEIR. Proposed changes do not significantly affect the previous analysis of cultural resource impacts. No additional analysis or mitigation measures are necessary, and the potential cultural resource effects of the revised project would remain reduced to a *less than significant level* by the policies and mitigation measures approved by The Regents in its certification of the 2004 FEIR and approval of the 2004 LRDP Amendment.

#### 3.6 GEOLOGY AND SOILS

The 2004 LRDP Amendment EIR included an assessment of potential geologic hazard impacts. Proposed changes would not significantly affect the previous analysis of geologic hazards impacts, and no additional analysis is necessary. The potential geology and soil effects of the revised project would remain reduced to a *less than significant level* by the policies and mitigation measures approved by The Regents in its certification of the 2004 FEIR and approval of the 2004 LRDP Amendment.

#### 3.7 HAZARDS AND HAZARDOUS MATERIALS

As described in the 2006 Revised Draft LRDP Amendment, proposed changes to the 2004 LRDP Amendment would include the construction of 73 structures on the North Parcel - 47 fewer than analyzed in the 2004 FEIR. The maximum building height would not increase from 35 feet. Because the project, as revised, will involve less construction activity, no new hazards and hazardous materials impacts associated with the new construction will occur above that analyzed in the 2004 FEIR. New data and clarifications regarding the Devereux Creek culvert project would also not affect the 2004 certified FEIR hazards and hazardous materials analysis of this project element, and no additional analysis is necessary. The potential hazards and hazardous materials effects of the revised project would remain reduced to a less than significant level by the policies and mitigation measures approved by The Regents in its certification of the 2004 FEIR and approval of the 2004 LRDP Amendment.

#### 3.8 HYDROLOGY AND WATER QUALITY

As described in the 2006 Revised Draft LRDP Amendment, proposed changes to the 2004 LRDP Amendment include 21 fewer units of faculty housing on the North Parcel, which would result in reduced water demand. The proposed area of disturbance for construction of North Parcel housing would decrease from 23 acres to 15.2 acres. The 100-year flood inundation area was revised on September 30, 2005 following certification of the 2004 FEIR, but the faculty housing site plan has been revised accordingly and the revision does not affect analysis in the 2004 certified FEIR. Proposed clarifications regarding the Devereux Creek culvert include engineered features that would reduce the 100-year flood hazard elevation level by approximately 1.07 feet (Penfield and Smith, 2006), but would not otherwise effect the 2004 certified FEIR analysis of this project element, while providing additional benefits towards improving the habitat value of Devereux Creek and Slough (as discussed in the Biological Resource section of this Addendum) and no additional analysis of hydrology and water quality is necessary. The hydrology and water quality of the revised project would remain less than significant with the policies and mitigation measures approved by The Regents in its certification of the 2004 FEIR and approval of the 2004 LRDP Amendment. The 2004 FEIR concluded the proposed project would result in a significant and unavoidable cumulative impact for water quality impairments associated with incremental increases in urban runoff in the Devereux Creek watershed. While the revised project would reduce the number of housing units by 21, the reduction does not significantly affect the previous 2004 FEIR analysis. Accordingly, no additional analysis is necessary, and the potential cumulative hydrology and water quality effects of the revised project would remain significant and unavoidable as determined by The Regents in its certification of the 2004 FEIR and approval of the 2004 LRDP Amendment.

#### 3.9 LAND USE AND PLANNING

The proposed changes to the 2004 LRDP Amendment include a revised site plan for the North Parcel, and avoidance, restoration, and enhancement of degraded Coastal Act wetlands found on the North Parcel (as opposed to the fill of wetland areas as proposed by the original North Parcel Faculty Housing project. Proposed clarifications regarding the Devereux Creek culvert would not affect the 2004 FEIR analysis of land use policy consistency, and no additional analysis is necessary. There are 47 fewer structures and 21 fewer faculty housing units proposed. While there will be an increase in three-story buildings, the proposed height of the buildings would not exceed 35 feet (the maximum height analyzed in the 2004 FEIR), which height would not present significant airport safety operational issues.

The 2004 LRDP proposed filling 1.52 acres of Coastal Act wetlands on the North Parcel to facilitate the North Parcel Faculty Housing project. The FEIR determined that development of the North Parcel site would be inconsistent with the California Coastal Act policies regarding the fill of Coastal Act wetlands. The North Parcel Faculty Housing Project is now proposed only as an alternative to the revised project for the North Parcel. As an alternative, the potential land use effects of the original North Parcel Faculty Housing project remain the same as discussed in the 2004 FEIR, although the amount of wetlands that would need to be filled for such alternative would be 0.92 acres rather than 1.52 acres.

The revised project for the North Parcel eliminates potential conflict with the policies of Chapter 3 of the Coastal Act; specifically Sections 30230 (maintenance, enhancement, and where feasible, restoration of marine resources), 30231 (maintenance, and where feasible restoration of biological productivity of marine resources), and 30233 ([diking, filling or dredging] other than as pertains to the fill of coastal zone wetlands for restoration purposes).

The revised project for the North Parcel does not propose diking, dredging or filling of marine Coastal Act wetlands. The biological productivity and quality of the marine environment within and affected by

the North Parcel area will be restored, enhanced, and maintained by the Amendment. The Devereux Slough biological productivity will be further enhanced by the clarifications to the Devereux Creek bridge and trail realignment components of the revised project. Most of the North Parcel Coastal Act wetlands on the North Parcel are manmade features which, as discussed by the 2004 FEIR, lack significant biological value as habitat. These areas are also presently subject to regular intrusion and disruption by the unauthorized and informal recreational use of the North Parcel that is made by members of the public. The revised project will retain, restore, enhance and protect these areas as part of the North Parcel Faculty Housing Project. Buffers ranging from 25 to 100 feet will be provided to protect restored and enhanced areas. No buildings will be permitted in these buffer areas, which will be enhanced and restored with native planting and maintained by the University, with flood control access, roads and pedestrian and bicycle paths carefully laid out to protect resources and homeowner privacy. Other than areas to be restored and enhanced as future vernal pools, these areas will also be incorporated into a larger area of interconnected wetlands, into which on-site bio-swales will drain. When completed, there will be restoration and enhancement of approximately 10.77 acres of wetland buffer habitat, approximately 0.92 acres of existing wetland, and approximately 0.77 acres of existing riparian areas on the project site (Morro Group 2006). The revised project also proposes the enhancement and restoration of the approximately 3.4 acres of existing natural open space area habitat on the South Parcel as part of the Open Space Plan, including vernal pools, freshwater marsh, saltwater marsh and riparian forest. The creation and restoration of natural open space area habitat the Open Space Plan area will ensure the longterm viability of such habitat and will contribute to the overall habitat value of the restored open space area.

Other than its elimination of potential conflicts with the policies in Chapter 3 of the Coastal Act, the land use effects of the revised project remain *less than significant* as analyzed in by The Regents in its certification of the 2004 FEIR and approval of the 2004 LRDP Amendment.

### 3.10 MINERAL RESOURCES

No known economically recoverable mineral resources are located within the North Parcel. Proposed changes and clarifications to the 2004 LRDP Amendment would not significantly affect the 2004 FEIR mineral resources analysis for the North Parcel and Devereux Creek culvert and no additional analysis is necessary.

#### **3.11 NOISE**

The proposed changes to the 2004 LRDP Amendment include 47 fewer structures with an associated21 fewer units of faculty housing, an increase in the number of three-story units, a revised site plan, and clarifications to the project description. The location of proposed faculty housing units would be in similar proximity to existing sources of noise, as assessed in the 2004 FEIR, which concluded that all operational noise associated with the occupancy of the proposed new residential development would be *less than significant*. While fewer structures will be construction, temporary construction related noise impacts would remain *significant and unavoidable* with the policies and mitigation measures approved by The Regents in its certification of the 2004 FEIR and approval of the 2004 LRDP Amendment.

#### 3.12 POPULATION AND HOUSING

The proposed changes to the 2004 LRDP Amendment include 21 fewer faculty housing units on the North Parcel, a revised site plan for the North Parcel, and clarifications to the project description. Fewer faculty households would be accommodated, which will exacerbate the social and economic effect of insufficient affordable faculty housing at UCSB. No feasible measures exist except to increase the amount of housing proposed. Alternatives discussed in the 2004 FEIR, and the original North Parcel

Faculty Housing project (which is now considered an alternative to the revised project) could provide such additional units. No additional analysis is necessary, and the potential population and housing effects of the revised project remain *less than significant* as analyzed in by The Regents in its certification of the 2004 FEIR and approval of the 2004 LRDP Amendment.

#### 3.13 PUBLIC SERVICES

The proposed changes to the 2004 LRDP Amendment include 21 fewer faculty housing units on the North Parcel, a revised site plan for the North Parcel, and clarifications to the project description. Proposed changes and clarifications would not affect the 2004 FEIR public services analysis with respect to any public service category (including schools, parks, libraries, police, fire, utilities (water, electricity, gas, solid waste, wastewater), and the potential public service effects of the revised project would remain reduced to a *less than significant level* by the policies and mitigation measures approved by The Regents in its certification of the 2004 FEIR and approval of the 2004 LRDP Amendment. No additional analysis is necessary.

#### 3.14 TRAFFIC AND TRANSPORTATION

The revised project would reduce the number of faculty housing units from 236 to 215, a 21 unit reduction. In addition, deceleration and acceleration lanes were added to the Student Family Housing project to lessen traffic impacts on Storke Road as a result of the proposed project. Also to lessen traffic impacts on Storke Road, access and egress to Storke Road from the Student Family Housing project parking lots located north of the primary entrance road will be restricted to emergency access vehicles only. Finally, the southern portion of the North-South road located west of the existing West Campus Apartments was realigned to a "T" intersection with the Ellwood Marine Terminal road to accommodate trail changes that will move an existing pedestrian-equestrian trail out of the northeast corner of the Devereux Slough (see policy 30210.23). The revised project is otherwise identical to that analyzed in the 2004 LRDP EIR. No further analysis is necessary. In their findings approving the 2004 LRDP Amendment and certifying the Final EIR, The Regents found that some mitigation measures to mitigate the potential traffic and transportation effects of the 2004 LRDP to less than significant for cumulative impacts fall within the responsibility and jurisdiction of the City of Goleta and/or County of Santa Barbara, and have been, or can and should be, adopted by the City of Goleta and/or County of Santa Barbara. The mitigation measures adopted for by The Regents for the 2004 LRDP provided for the Project's appropriate contribution to those mitigation measures. However, The Regents found that if the City of Goleta and/or the County of Santa Barbara does not implement such measures, the traffic and circulation impacts that would have been mitigated to a less than significant level by them will be significant and unavoidable. The analysis underlying these conclusions remains unchanged for the revised project.



#### 4.0 NEW AND REVISED ALTERNATIVES

There were five alternatives evaluated in the 2005 certified FEIR. Three of these alternatives (Alternative 1 and 4) have been revised to reflect new wetland delineation data from January 2006. This Addendum includes the original proposed project in the 2004 FEIR as an alternative.

#### 4.1.1 Alternative 3

Alternative 3 of the final EIR proposed a project to develop 147 units of faculty housing on the North Parcel, 122 units of faculty housing on the South Parcel, and 144 units of student housing on the Storke-Whittier Parcels, for a total of 413 units. This alternative is substantially consistent with Goleta Community Plan approved by the Coastal Commission in 1994 (which designated the South Parcel as "suitable for medium density development" (122 units)). The Goleta Community Plan assigned three land use designations to the South Parcel: (1) Area for Potential Development; (2) Environmentally Sensitive Habitat Area; and (3) Open Space (buffer) Area.

In January 2006 WRA, Inc. conducted a new delineation study on the South Parcel to describe the location and extent of any wetlands and riparian habitats. Approximately 1.51 acres of riparian habitat was identified and a total of 2.54 acres were determined to be wetlands under the California Coastal Act definition (WRA 2006). A revised conceptual site plan for South Parcel was prepared using the updated wetland information with 207 units of faculty housing with 100-foot buffers from all wetlands (Figure 2.5).

The revised conceptual site plan indicates that all proposed development under Alternative 3 would remain in the portions of the South Parcel designated as "Area for Potential Development" by the Goleta Community Plan. The revised site plan for Alternative 3 would continue to avoid impacts to wetlands and riparian habitats. No new potential impacts would occur.

#### 4.1.2 Alternative 1

Alternative 1 assumed that the North Parcel would be retained as undeveloped property, and that 207 units of faculty housing would be developed on the South Parcel (of the North Campus), and 151 units of family student housing would be developed on the Storke-Whittier Parcel. A revised conceptual site plan reflecting the updated wetland information for the South Parcel indicates that all proposed development under Alternative 1 would remain in the portions of the South Parcel designated as "Area for Potential Development" by the Goleta Community Plan. The revised site plan for Alternative 3 would continue to avoid impacts to wetlands and riparian habitats. No new potential impacts would occur.

#### 4.1.3 Alternative 4

Alternative 4, as analyzed in the 2004 FEIR provided for the development of 236 units of faculty housing on North Parcel, 207 units of faculty housing on South Parcel, and 151 units of family student housing on the Storke-Whittier Parcel. Based on the new wetland data for both north and south parcels an updated plan has been prepared which restricts South Parcel Development to the "Area for Potential Development" designated by the Goleta Community Plan and which provides a 100-foot buffers to all wetlands.

The updated plan for alternative would reduce development on the North Parcel from 236 to 70 units. The number of units proposed for the South Parcel (207) and Storke-Whittier Parcel (151) would remain as described in the 2004 FEIR. A conceptual site plan for north and south parcel development is shown

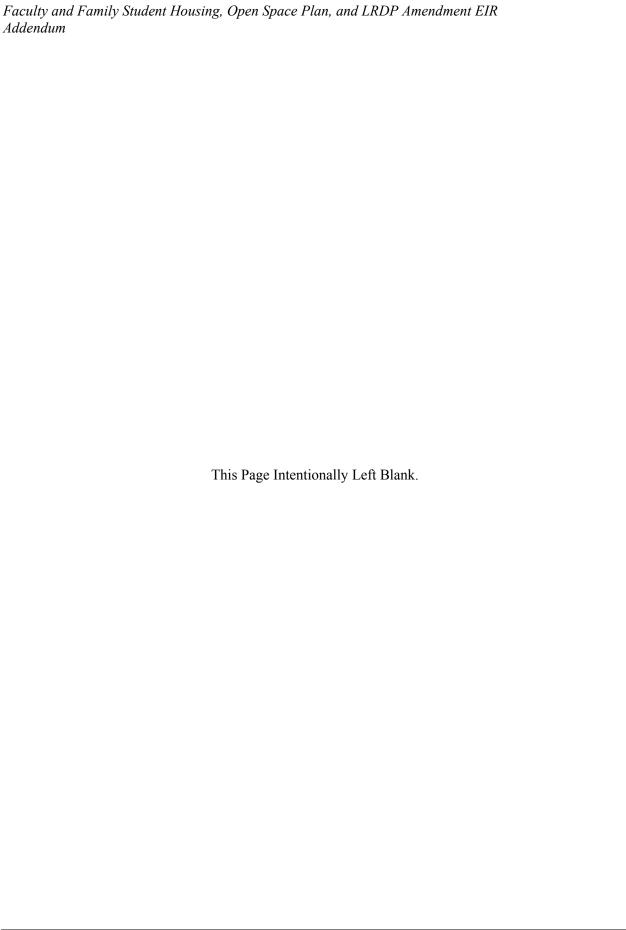
in Figure 2.6. The revised site plan for Alternative 3 would continue to avoid impacts to wetlands and riparian habitats. No new potential impacts would occur.

## 4.1.4 2004 FEIR North Parcel Faculty Housing Project Alternative

The North Faculty Housing project proposed project in the 2004 FEIR would become an alternative under the revised Amendment. This project included the development of 236 units of faculty housing on the North Parcel, and required the removal of 1.52 seasonal wetlands on the North Parcel. Subsequent to The Regents' certification of the final EIR, approval of the 2004 LRDP Amendment, the State of California and project area experienced a near-record rainfall during the rainy season of 2004-2005. As a result of the rainfall and other changes, the wetland/upland characteristics of the North Parcel have been altered. Some areas that were previously uplands, now exhibit wetland characteristics. Some areas that previously exhibited wetland characteristics, no longer exhibit wetland characteristics. An updated wetland delineation has been prepared (WRA 2006) which identifies 0.92 acres of seasonal wetlands on the North Parcel. However, the updated Wetland delineation (WRA 2006) confirms that the wetland areas present on the North Parcel consist of small, hydrologically unconnected depressional areas and several shallow man-made swales that trend generally east to west across the site. The swales are poorly defined and vary in width, depth, and continuity. One swale drains into Phelps Ditch, while the other swales are discontinuous, beginning and ending within the site. The seasonal wetland areas on the site "were determined to be of relatively recent origin due to human-made disturbances such as excavation, heavy foot traffic, and vehicle movement through the site" (WRA 2006). Accordingly, although 0.92 acres of seasonal wetlands would be filled pursuant to this alternative (rather than 1.52 acres of seasonal wetlands), potential impacts would remain as previously identified in The Regents certification of the 2004 final EIR, and no new mitigation measures would be necessary.

# 5.0 MITIGATION MEASURES ADOPTED PURSUANT TO THE 2004 FEIR FOR THE 2004 LRDP

The Mitigation Monitoring and Reporting Program from the 2004 Final EIR is attached as Appendix A.



# 6.0 REFERENCES

#### **EIP Associates**

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#### WRA, Inc.

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#### WRA, Inc.

2006 Wetlands Delineation Subject to the California Coastal Act, UCSB South Parcel.

# 6.1 **DOCUMENT PREPARER**

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Faculty and Family Student Housing, Open Space Plan, and LRDP Addendum	Amendment EIR
	Appendix A 2004 Final EIR Mitigation and Monitoring Plan



# SECTION 13.0 MITIGATION MONITORING AND REPORTING PROGRAM

Section 13.0

Mitigation

Monitoring

and Reporting

Program

#### 13.1 INTRODUCTION

The California Environmental Quality Act (CEQA) requires the adoption of feasible mitigation measures to reduce the severity and magnitude of potentially significant environmental impacts associated with development of the proposed project. The Final Environmental Impact Report (Final EIR) for the UCSB Faculty and Family Student Housing, Open Space Plan, and LRDP Amendment, SCH #2003071178, dated February 2004, recommends that The Regents of the University of California adopt a range of measures that will mitigate to the extent feasible the environmental effects that could result from the implementation of the proposed project.

The mitigation measures include measures that must be undertaken during the development of the proposed project, or at regular time intervals to monitor and report on ongoing administrative actions or service levels. Monitoring of the implementation of adopted mitigation measures is required by Public Resources Code Section 21081.6. This document identifies mitigation measures (MMs) for the proposed project and describes the process whereby the MMs would be monitored following certification of the Final EIR and adoption of this Mitigation Monitoring and Reporting Program (MMRP) by The Regents.

### 13.2 PROJECT DESCRIPTION

The subject of this Mitigation Monitoring Program is the UCSB Faculty and Family Student Housing, Open Space Plan, and LRDP Amendment, which has been proposed by the University of California, Santa Barbara (UCSB or the University). The *Joint Proposal for the Ellwood-Devereux Coast* (Joint Proposal) was prepared and released by the University of California Santa Barbara and the County of Santa Barbara in March 2002. The Joint Proposal, as supplemented and amended by a Memorandum of Understanding (MOU) between the University, County, and the newly formed City of Goleta, was accepted and approved in January 2003 by the three jurisdictions as a starting point for a collaborative regional planning process. As a result of this planning process, residential development within each of the three jurisdictions is now proposed away from sensitive coastal resources and the three agencies have jointly prepared the Ellwood-Devereux Coast Open Space and Habitat Management Plan (Open Space Plan) to preserve and protect resources on, and coastal access to, approximately 2.25 miles of undeveloped coastline between Isla Vista and Sandpiper Golf Course. The intent of this cooperative effort is resolution

Section 13.0

Mitigation

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of nearly two decades of debate on how to balance development rights and open space preservation, while protecting the area's most sensitive coastal resources and maintaining and enhancing public access to the coast. As a result of this collaborative regional planning process, the University proposes to relocate and reduce currently planned levels of residential development on its North and West Campuses, while still providing needed housing for University faculty and student families.

The proposed project consists of an amendment of the University LRDP, to permit residential development on the North Campus, to designate open space areas on the North and West Campuses, and to identify management actions to preserve, enhance, and restore coastal resources within those open space areas. In conjunction with amendment of the LRDP, the University would construct two individual housing projects and implement the proposed Open Space Plan initial improvements within University jurisdiction. The proposed faculty and family student housing and Open Space Plan project proposes development of 236 units of faculty housing on the North Parcel of the University North Campus and 151 units of Family Student Housing on the Storke-Whittier Parcel (also on the North Campus). Implementation of the Open Space Plan for the North and West Campuses would improve coastal access through (1) improvement of existing trails, (2) improvement of three existing beach access points, (3) installation of one new coastal access stairway, (4) provision of up to 84 (74 net additional) public parking spaces at up to four locations, and (5) replacement of the existing portable restroom at Coal Oil Point with a permanent restroom at approximately the same location. In addition, the Open Space Plan identifies goals, objectives, and management actions for the protection of sensitive coastal resources, including enhancement and restoration of degraded habitat.

In addition to review by The Regents of the University of California (The Regents), the proposed LRDP amendment would be reviewed by the California Coastal Commission, along with the proposed residential and Open Space Plan initial improvements in the form of a Notice of Impending Development.

## 13.3 MITIGATION MONITORING AND REPORTING PROGRAM DESCRIPTION

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#### 13.3.1 Roles and Responsibilities

The Chancellor is ultimately responsible for the enforcement of all adopted mitigation measures and programs and procedures. The Administrative Vice Chancellor has responsibility for implementing this Mitigation Monitoring and Reporting Program, and will report on an annual basis directly to the Chancellor regarding the status of their implementation. Compliance with most project specific mitigation measures would remain the responsibility of the Campus Planning Department. The Environmental Planning unit within Campus Planning has overall responsibility for reporting on the monitoring and implementation of the mitigation measures and programs and procedures included in this MMRP.

#### 13.3.2 Mitigation Monitoring Procedures

In general, monitoring consists of documenting that mitigation measures and programs and procedures were implemented by the responsible unit(s) at the appropriate time in specific project development, or at regular intervals for administrative actions, public service and vehicle trip and parking levels.

Specific Projects. Monitoring for specific projects would determine whether (1) LRDP academic, physical and operational objectives, and other specific design issues were considered in the design development phase; (2) the required CEQA analysis considered project-specific environmental effects, incorporated relevant mitigation measures; (3) construction contracts include the specified provisions; and (4) project management mitigations were implemented during construction and landscaping of the project.

Administrative Actions. Administrative actions to mitigate potential impacts of campus growth are monitored via annual consultation with and/or submittal of reports from the responsible unit(s). Administrative MMs include housing, transportation demand management, seismic renovation, water and energy conservation, solid waste reduction, wastewater generation, hazardous materials management, and Disaster Response Plan and Business Plan updates. As program strategies or goals have already been established in most of these areas, monitoring would consist of describing the status of actions undertaken to implement these mitigations,

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Mitigation Monitoring and Reporting Program programs and procedures, progress made towards implementation, and future actions to be initiated.

**Public Service Levels.** MMs that relate to the maintenance of service levels are associated with the provision of adequate police and fire protection services, which could be affected by the proposed project. Monitoring these service levels would provide for an ongoing assessment of the adequacy of police and fire protection levels and equipment needs.

#### 13.3.3 Mitigation Timing

Generally, the following milestones are used to identify timing for implementation of each mitigation measure, program, or procedure. Implementation of off-campus traffic improvement measures would be dependent upon the timing of project specific proposals under the proposed project.

• Design: During project design.

Grading: Prior to and during project grading.

• Construction: Prior to and during project construction.

• Ongoing: Periodically as part of campus operations.

#### 13.3.4 Program Changes

The University reserves the right to make amendments and/or substitutions of MMs if, in the exercise of the discretion of the University, it is determined that the amended or substituted MM will mitigate the identified potential environmental impact to at least the same degree as the original MM, or would attain an adopted performance standard for mitigation, and where the amendment or substitution would not result in a new significant impact on the environment which cannot be mitigated.

### 13.3.5 The Monitoring and Reporting Program

The mitigation measures and programs and procedures that are recommended to The Regents for adoption upon certification of the Final EIR for the proposed project form the remainder of this document. The required mitigation measures and programs and procedures are listed by impact area, with an identification of the campus unit or department responsible for

implementation and determination of the type or timing of implementation for each mitigation

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measure and/or program and procedure.

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A mitigation and monitoring report will be prepared annually by Campus Planning and Design to describe the implementation status of EIR mitigation measures, which will be expanded as needed to describe implementation of the proposed project. Annual mitigation and monitoring reports are submitted to the UC Office of the President, Planning, Design and Construction.

Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applicable Project Component		Phase		
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.2 Geol	ogy and Geologic Hazards								
4.2-1(a)	Per LRDP policy 30253.7, new development shall be constructed at a sufficient distance to maintain the proposed structure for a minimum of 100 years without the construction of shoreline protective devices.	Incorporated into Grading and Building Plans	Design & Construction Services Project Manager	Design Phase	×			Design Phase	Design & Construction Services Director
4.2-1(b)	During project-specific design, a site-specific geotechnical study shall be conducted under the direct supervision of a California Registered Engineering Geologist or licensed geotechnical engineer to assess seismic, geological, soil, and groundwater conditions at each construction site and develop recommendations to prevent or abate any identified hazards. The University shall incorporate or adhere to the recommendations of each site-specific report that are designed to reduce potential exposure to seismic hazards. These recommendations would include, but not be limited to, specific foundation design features, building and/or structural design features, and grading and excavating recommendations.	Incorporated into Grading and Building Plans	Design & Construction Services Project Manager	Design Phase		X	X	Design Phase, Grading Phase, Construction Phase	Design & Construction Services Director

<sup>\*</sup> Contract documents include University documents and/or ground lease documents.

OSP = Ellwood-Devereux Coast Open Space and Habitat Management Plan

FH = North Campus Faculty Housing

SH = Sierra Madre Family Student Housing

AVC = Assistant Vice Chancellor

Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applicable Project Component			Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.2-1(c)	Per LRDP policy 30253.8, the campus shall determine the required setbacks for new buildings through the use of a report by a registered engineering geologist.	Incorporated into Grading and Building Plans	Design & Construction Services Project Manager	Design Phase		X	X	Design Phase	Design & Construction Services Director
4.2-2(a)	(i) Per LRDP policy 30251.11, contours of finished surfaces on the North and West Campuses are to be blended to achieve a consistent grade and natural appearance. Borders of cut slopes and fills are to be rounded off to minimum radius of five feet so as to blend with the natural terrain.	Incorporated into Grading and Building Plans	Design & Construction Services Project Manager	Design Phase	×	X	X	Grading Phase, Construction Phase	Design & Construction Services Director
	(ii) This shall be applicable to development and structures on the North and West Campuses.								
4.2-2(b)	Per LRDP policy 30253.12, surface and sub-surface drainage pipes shall be designed to minimize erosion and instability of the bluff face and only where no other less damaging drainage system is feasible. Drainage devices extending over the bluff face shall not be permitted if the site can feasibly be drained landward of the bluff face.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase	X	X	X	Design Phase, Construction Phase	Design & Construction Services Director

OSP = Ellwood-Devereux Coast Open Space and Habitat Management Plan

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applicable Project Component			Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.2-2(c)	Per LRDP policy 30253.13, vegetation within 50 feet of the bluff top shall be maintained or replanted with drought resistant species should grading be required to establish proper drainage landward of the bluff.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Grading Phase	X			Grading Phase, Construction Phase	Design & Construction Services Director
4.2-2(d)	Per LRDP policy 30231.1, to protect identified campus wetlands, environmentally sensitive habitat areas, and coastal waters from sediment transfer or contamination from urban runoff during construction, the following grading and erosion control practices shall be followed:	Incorporated into Contract Documents* and Grading and Building Plans	Design & Construction Services Project Manager	Design Phase, Grading Phase	×	×	X	Grading Phase, Construction Phase	Design & Construction Services Director
	(a) North and West Campuses construction periods shall be scheduled during the dry months of the year (May through October) whenever possible;								
	(b) If grading occurs during the rainy season (November through April), sediment traps, barriers, covers, or other methods shall be used to reduce erosion and sedimentation.								
	(c) A site-specific erosion control and landscape plan shall be prepared for all new construction.								
	(d) Land on the North and West Campuses is to be developed in								

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applicable Project Component			Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	increments of workable size that can be completed during a single construction season: erosion and sediment control measures are to be coordinated with the sequence of grading.								
	(e) Excavated materials shall not be deposited or stored where the material can be washed away by high water or storm runoff.								
	(f) Grading operations on campus shall be conducted so to prevent damaging effects of sediment production and dust on the site and on adjoining properties.								
	(g) When vegetation must be removed on campus, the method shall be one that will minimize the erosive effects from the removal.								
	(h) Exposure of soil to erosion by removing vegetation shall be limited to the area required for construction operations. The construction and staging area should be fenced to define Project boundaries.								
	Removal of existing vegetation on campus is to be minimized whenever possible.								
	(j) Temporary mulching or other suitable								

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

	Mitigation Measures	How		Phase	Applicable Project Component			Phase	
Number		Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	stabilization measures shall be used to protect exposed areas during construction or other land disturbance activities on campus.								
	(k) Topsoil removed from the surface in preparation for grading and construction on-campus is to be stored on or near the site and protected from erosion while grading operations are underway, provided that such storage may not be located where it would cause suffocation of root systems of trees intended to be preserved. After completion of such grading, topsoil is to be restored to exposed cut and fill embankments of building pads so as to provide a suitable base for seeding and planting.								
	(I) Slopes, both cut and fill on campus, shall not be steeper than 2:1 unless a geological and engineering analysis indicates that steeper slopes are safe and erosion control measures are specified.								
	(m) Slopes on campus shall not be constructed so as to endanger or disturb adjoining property.								
	(n) Sediment basins, sediment traps, or similar sediment control measures								

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		How		Phase	Applicable Project Component			Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	shall be installed before clearing and grading operations begin.								
	(o) Neither wet concrete, nor slurries thereof, shall be permitted to enter any campus wetlands.								
4.2-2(e)	Prior to the start of construction for any site restoration activities, a restoration plan shall be prepared that identifies construction and post-construction erosion control measures to minimize exposure of soils to wind and water erosion and deposition of sediment in adjacent areas and drainage courses.	Incorporated into Contract Documents* Restoration plan to be prepared by a qualified professional	Design & Construction Services Project Manager	Design Phase	X			Design Phase, Grading Phase, Construction Phase	Design & Construction Services Director
4.3 Hydr	ology and Water Quality								
4.3-3(a)	Installation of a culvert on Devereux Creek under the Venoco Access Road shall be restricted to the period from May to October, when rainfall is typically limited.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Construction Phase	X			Construction Phase	Design & Construction Services Director
4.3-3(b)	Installation of the culvert shall be accompanied by the removal of sediment in the existing upstream debris basin.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Construction Phase	Х			Construction Phase	Design & Construction Services Director

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applica	able Pr mpone		Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.3-3(c)	Installation of the culvert shall be accompanied by measures to stabilize the portions of the channel immediately upstream and downstream of the culvert, and to re-vegetate areas affected by construction activities.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Construction Phase	×			Construction Phase	Design & Construction Services Director
4.3-9	For the bridge over Phelps Ditch, structural supports shall either be placed outside the 100-year flood hazard zone, or be designed such that flood flows would be directed toward the overbank area (adjacent to the ditch), which would contain potential flood flows associated with bridge supports.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Construction Phase		×		Construction Phase	Design & Construction Services Director
4.4 Biolo	gical Resources								
4.4-1(a)	Per LRDP policy 30230.1, development in Coal Oil Point Natural Reserve will be kept to a minimum. Only structures that would be used in conjunction with research in the Reserve, or that would enhance the area's usefulness as a natural study area, will be allowed, such as weather stations, observation blinds, small storage structures, fences, signs, and other gates.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase	×			Design Phase	Design & Construction Services Director
4.4-1 (b)	Per LRDP policy 30240(a)4, to preserve roosting habitat for birds, eucalyptus, pine, and other trees and brush located on the bluff east of Coal Oil Point Natural	Incorporated into Contract Documents* and Building	Design & Construction Services Project Manager	Grading Phase, Construction Phase	X			Grading Phase, Construction Phase	Design & Construction Services Director

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase Implemented	Applicable Project Component			Phase	
Number	Mitigation Measures	Implemented	Implementer		OSP	FH	SH	Monitored	Who Monitors
	Reserve outside of the faculty housing development and outside of the Coal Oil Point development will not be removed except where necessary to accommodate new structures or infrastructure to preserve roosting habitat for sensitive bird species and monarch butterflies, special consideration and care shall be given prior to the removal of any significant nonnative trees such as eucalyptus and some pines that are recognized as roosting areas for sensitive species. Non-native tree and brush species may be removed if their presence inhibits fulfillment of other LRDP objectives such as protection of view corridors or restoration of native habitat.	Plans							
4.4-1(c)	Per LRDP policy 30240(a)16, the campus shall use mosquito control methods with the least effects upon non-target organisms. Wetlands shall not be drained for this purpose, nor shall non-native larval predators be introduced.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Ongoing	×	X	×	Ongoing	Design & Construction Services Director
4.4-I(d)	Per LRDP policy 30240(b)6, in order to protect habitats of the Reserve:  (a) The total square footage of current and replacement Coal Oil Point structures shall not exceed the total square footage of current Coal Oil Point structures.	Incorporated into LRDP	AVC of Campus Planning and Facilities Management	Design Phase	X			Design Phase, Grading Phase	AVC of Campus Planning and Facilities Management and Campus Planning and Design

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		How		Phase	Applicable Project Component			Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	(b) New structures that are constructed as part of the Coal Oil Point project shall be set back a minimum of 50 feet from the bluff edge.								Director
	(c) Trees on Coal Oil Point will not be removed except where necessary to accommodate new structures and infrastructure.								
4.4-I (e)	Per LRDP policy 30251.7, existing native trees and significant stands of trees that pre-date University acquisition of the campus, to the extent feasible, shall be retained within the overall site area of new development.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase, Grading Phase	X	X	X	Design Phase, Grading Phase	Design & Construction Services Director
4.4-1 (f)	If no vegetation or tree removal is proposed during the avian nesting period, no surveys are required. If it is not feasible to avoid the nesting period, a survey for special status and MBTA-protected nesting birds should be conducted by a qualified wildlife biologist no earlier than 14 days prior to the removal of trees, shrubs, grassland vegetation, buildings, grading, or other construction activity. Survey results shall be valid for 21 days following the survey. The removal of trees, shrubs, or weedy vegetation should avoid the February I through August 31 bird nesting period to the extent possible. The area	Incorporated into Contract Documents* A qualified wildlife biologist would be hired if necessary	Design & Construction Services Project Manager or Construction Contractor Project Manager	Grading Phase	X	X	×	Grading Phase	Design & Construction Services Director

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		How		Phase Implemented	Applicable Project Component			Phase	
Number	Mitigation Measures	Implemented	Implementer		OSP	FH	SH	Monitored	Who Monitors
	surveyed should include all construction sites, access roads, and staging areas, as well as areas within 500 feet outside the boundaries of the areas to be cleared or as otherwise determined by the biologist.								
	Installation of bird netting during the non- nesting season on buildings that are used by swallows will prevent nesting and impacts to these species. If this is done, no building-specific surveys would be required.								
	In the event that an active nest of a special status and MBTA-protected nesting birds is discovered in the areas to be cleared, or in other habitats within 150 feet (500 feet for raptors) of construction boundaries, clearing and construction should be postponed for at least two weeks or until a wildlife biologist has determined that the young have fledged (left the nest), the nest is vacated, and there is no evidence of second nesting attempts.								
4.4-1(g)	As previously discussed, southern tarplant, a sensitive plant species, would be impacted by the development of both the North and Storke-Whittier parcels. Protocol plant surveys have not been conducted for the entire planning area and other sensitive plant species (Table 4.4-3) may occur within the project area and be	into Contract	Design & Construction Services Project Manager or Construction Contract Project Manager	Grading Phase	X	×	×	Grading Phase	Design & Construction Services Director, CDFG Regional Biologist

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applicable Project Component			Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	impacted by the project. Therefore, prior to construction or restoration to ensure that no sensitive plants or wetland species would be significantly affected by the project, the University shall conduct plant surveys of the area in accordance with applicable protocols developed by the CDFG. Surveys for sensitive plants should be conducted by a botanist familiar with the species and its flowering status.	develop a species-specific							
	If sensitive plant species are observed, a qualified botanist should develop a species-specific replacement plan to be incorporated into any restoration plans. If wetland species are involved, the botanist should work closely with the wetland specialist in creating the restoration plan [MM 4.4-2(i) and MM 4.4-2(j)] to ensure that conditions at newly created wetlands sites meet the needs of the sensitive plant species. This plan should include elements to limit project impacts such as the relocation of individual specimens, the collection of seeds and replanting, or the preservation and movement of topsoil that contains the seed bank.								
4.4-1(h)	A monitoring program shall be developed by the University and approved by the CDFG to ensure the continued viability of sensitive habitat and/or individual or		Design & Construction Services Project Manager	Design Phase, Construction and Operation Phase	Х	Х	×	Ongoing	Design & Construction Services Director,

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		How		Phase	Applica Cor	able Pr npone	•	Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	populations of special-status (CNPS List IB or greater) plant species that currently occur within the project area. The plan will focus on establishing baseline conditions of the current population(s), creating management and/or enhancement goals, developing a monitoring timeframe, establishing acceptable viability criteria, identifying appropriate remedial actions to be taken if the viability criteria is not met, and a funding mechanism for long-term monitoring, which could include establishment of a fund via development fees.	monitoring program will be prepared by a qualified professional		The monitoring plan would be prepared during design phase and implemented during construction and operation phase					CDFG Regional Biologist, and Campus Planning and Design Director
4.4-1(i)	Prior to construction or restoration activities that could impact federally protected vernal pool crustaceans, the University shall conduct surveys of the appropriate vernal pools in accordance with current USFWS survey protocol. If these species are found, consultation with the USFWS in accordance with the federal ESA shall occur (typically as part of the CWA permitting process). Restoration and preservation activities could be required by the USFWS should these species be observed before a permit will be issued by the USFWS or the ACOE.	Incorporated into Contract Documents* A qualified biologist would be hired to conduct surveys	Design and Construction Services Project Manager A qualified wildlife biologist would be hired to conduct surveys	Surveys would be conducted pre- construction phase Grading Phase	×	×	×	Construction Phase and Ongoing	Design & Construction Services Director, USFWS Regional Biologist, ACOE Case Manager
4.4-1 (j)	If California least terns are observed within the COPR area, the following	Incorporated into Contract	Facilities Management Project Manager	Grading Phase	Х			Grading Phase	AVC of Campus

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		How		Phase	Applica	able Pr mpone	-	Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
Number	measures shall apply to both the snowy plover and the California least tern, however, if no nesting or wintering California least terns are observed, the following will only apply to the snowy plover. To ensure that construction and construction-related noise associated with trail and access point closure and formalization and recreational activities associated with the formalization of trails and access points do not detrimentally impact the breeding and wintering activities of western snowy plovers and California least terns, routine monitoring of nesting snowy plovers and California least terns, if applicable, shall be conducted by a qualified wildlife biologist or trained volunteer. Nesting and roosting areas shall be completely surrounded by exclusion fencing placed under the guidance of a qualified biologist and routinely inspected and repaired as necessary year round. Exclusion fencing shall be adequate for preventing disturbance by people, pets, and horses. Should the plovers relocate their nesting sites, additional fencing shall be installed as required. Informational signs indicating the purpose of the fence shall be installed and maintained through	Implemented Documents*	Implementer  /COPR qualified wildlife biologist hired to monitor						Who Monitors  Planning and Facilities Management, Design & Construction Services Director, USFWS Regional Biologist, COPR Director

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applica Cor	able Pr mpone	•	Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	with increased recreational use of Sands Beach, the University shall provide a financial contribution to the COPR to maintain and expand the Snowy Plover Docent Program. Additional measures may be imposed by the COPR Director or the USFWS and would augment or supersede MM 4.4-1(j).								
4.4-1(k)	If California least terns are observed within the COPR area, the following measures shall apply to both the snowy plover and the California least tern, however, if no nesting California least terns are observed, the following will only apply to the snowy plover. Construction and restoration activities within designated snowy plover critical habitat (Figure 4.4-2) shall only be conducted following approval by the USFWS in coordination with the COPR Director. Once approval has been obtained, all construction and restoration sites shall be surveyed daily by a qualified wildlife biologist during the nesting season to ensure that no plovers have started nesting within restoration or construction areas. If plovers are nesting within a project area, exclusion fencing shall be installed (as described in MM 4.4-I(p)) to prevent disturbance of the nest, and all work shall halt within a buffer zone	Incorporated into Contract Documents*	Facilities Management Project Manager	Grading Phase	X			Grading Phase, Construction Phase	AVC of Campus Planning and Facilities Management, USFWS Regional Biologist, COPR Director

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	Mitigation Measures  established by a qualified wildlife biologist until the young have hatched and fledged. If construction occurs outside the nesting season, surveys should be conducted at the request of the USFWS. Additional measures may be imposed by the USFWS and would augment or supersede MM 4.4-1 (k).			Phase	Applicable Project Component			Phase	
Number 4.4-1 (I)			Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.4-1(1)	All project-related construction and restoration sites shall include installation of exclusion fencing of sufficient height and extent to prevent these species [sensitive reptiles and amphibians] from entering into the project areas. Fencing shall be installed under the direction of a qualified wildlife biologist, inspected daily to minimize the potential for damaged fence areas allowing these sensitive species entry into the construction zones. The inspections shall be performed by construction crewmembers, and any damage to the fence shall be repaired immediately.	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Construction Contractor to hire a qualified wildlife biologist to perform these tasks	Grading Phase	X	X	X	Ongoing	Design & Construction Services Director
4.4-I (m)	To prevent disturbance of sensitive animals and habitats, pets shall not be allowed within the COPR or snowy plover habitat, and shall be required to be leashed at Sands Beach, providing they do not disturb the plovers.	LRDP, COPRMP	Campus Police	All Phases	×			Ongoing	COPR Campus Planning & Design, Campus Police

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applic	able Pr mpone		Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.4-I (n)	Construction and construction-related noise associated with: 1) trail and access point formalization within the South Parcel, West Campus Bluffs, and COPR; 2) recreational and restoration activities within the COPR expansion area, South Parcel and West Campus Bluffs; and 3) recreational activities associated with the formalization of trails and access points within the South Parcel, West Campus Bluffs, and COPR could impact special status wildlife species located within or adjacent to these parcels (Table 4.4-6 and Figure 4.4-2), although due to habitat improvement long-term effects are expected to be beneficial. Effected species would include species such as the white-tailed kite, and other species identified in Table 4.4-6 that are not specifically identified within previous mitigation measures. To minimize impacts, a monitoring program shall be developed by the University and approved by the CDFG and USFWS to ensure the continued viability of individual or populations of special status wildlife that currently occur within the project area. The plan will focus on maintaining baseline conditions of the current population(s) by creating management and/or enhancement goals,	into Contract Documents*	Design & Construction Services Project Manager or Construction contractors to hire consultant to prepare monitoring plan	Grading Phase	X			Ongoing	Design & Construction Services Director, CDFG and USFWS Regional Biologists, COPR

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applicable Project Component			Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	developing a monitoring timeframe, establishing acceptable viability criteria, identifying appropriate remedial actions to be taken if the viability criteria are not met, and a development of a funding mechanism to ensure long-term monitoring.								
4.4-I(o)	The design, construction, and operation of residential development and open space improvement shall include Best Management Practices per the Storm Water Management Plan to reduce the discharge of sediment and pollutants in runoff.	Incorporated into Contract Documents*	Design & Construction Services Project Manager, Facilities Management Project Manager	Design Phase, Grading and Construction Phase SWPPP prepared during design phase, implemented during grading and construction phase	X	X	X	Ongoing	AVC of Campus Planning and Facilities Management, Design & Construction Services Director, EH&S
4.4-2(a)	Text associated with this mitigation measure has been deleted.								

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applica Cor	able Pr mpone		Phase	Who Monitors
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	
4.4-2(b)	Per LRDP policy 30251.17, native plant species from genetic stock from the Ellwood-Devereux watershed will be used in all open space areas outside the development areas on North and West Campuses, and drought tolerant species will be used within the development areas as much as possible. Landscaping use of exotic invasive plants listed in the most recent update of the Exotic Pest Plant of Greatest Ecological Concern in California (California Invasive Plant Council) shall be prohibited on North and West Campuses.	Incorporated into Construction Contract Documents* and Building Plans	Design & Construction Services Project Manager, Facilities Management Project Manager	Design Phase	×	×	×	Construction Phase	AVC of Campus Planning and Facilities Management, Design & Construction Services Director
4.4-2(c)	Per LRDP policy 30253.13, within 50 feet of the bluff top, vegetation shall be maintained or replanted with drought-resistant species, should grading be required to establish proper drainage landward of the bluff.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase	X			Construction Phase	Design & Construction Services Director
4.4-2(d)	When habitat that is regulated by the Clean Water Act (404) or defined as sensitive by the CDFG, or designated as ESHA would be impacted, either directly or indirectly, a Sensitive Habitat Restoration Plan shall be prepared to detail the specifics of the proposed habitat replacement mitigation. The plan shall be prepared prior to applicable vegetation or habitat modification by a qualified restoration specialist who has appropriate	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager or Construction contractor to hire a qualified biologist to prepare a Sensitive Habitat Restoration Plan including a monitoring plan	All Phases	×	X	X	Ongoing Plan reviewed prior to construction, implemented after construction, monitoring would take	Design & Construction Services Director, CDFG Regional Biologist, ACOE Case Manager

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AVC = Assistant Vice Chancellor

Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applicable Project Component			Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	knowledge for each habitat type, shall be approved by CDFG and/or ACOE (depending upon jurisdiction), and shall include all measures for the revegetation and maintenance of on and/or off-site habitat. The plan shall include the following, as necessary:							place post- restoration	
	(a) The details and procedures required to prepare the restoration site for planting (i.e., grading, soil preparations, soil stocking, etc.), including the need for a supplemental irrigation system, if any.								
	(b) The methods and procedures for the installation of the plant materials. Plant protection measures identified by this document, the project biologist, and/or agency personnel shall be incorporated into the planting design and layout.								
	(c) Guidelines for the maintenance of the mitigation site during the establishment phase of the plantings. The maintenance program shall contain guidelines for the control of non-native plant species, maintenance of the irrigation system, and replacement of plant species.								

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applic Cor	able Pr mpone	•	Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	monitoring plan that when implemented will evaluate developing habitat and/or vegetation such that its final replacement value and ratio shall be at a minimum of 1:1 for non wetlands and 3:1 for ACOE-defined wetlands, or as otherwise mandated. Specific goals for the restored habitat shall be defined by quantitative and qualitative characteristics of similar habitats and plants (e.g., density, cover, species composition, structural development). The monitoring effort shall include an evaluation of not only the plant material installed, but the use of it by wildlife. Monitoring reports of the mitigation site shall be reviewed by the permitting state and federal		·						
	agency(s).  (e) In the mitigation of vernal pools that would be filled or otherwise disturbed, the University shall preserve and re-use the topsoil from vernal pools to be filled. Topsoil from vernal pools contains both the seed bank for the plant species that occur in that individual pool and any potential vernal pool crustacean cysts for those species that occur there. Removal of topsoil from vernal pools								

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applica	able Pr npone		Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	shall either: I) comply with the most recent ACOE and USFWS guidelines at the time of construction, or 2) consist of removal of the top 2 inches of soil, followed by the next 4 inches of soil, and placement of these layers in constructed vernal pools in reverse order (e.g., first the 4 inches followed by the 2 inches) to approximately reconstruct the natural soil horizon.								
	(f) For areas designated as ESHA, mitigation ratios shall be no less than 1:1 for both replacement of impacted areas, and new areas shall be designated as ESHA.								
	(g) Contingency plans and appropriate remedial measures shall also be outlined in the revegetation plan should the plantings fail to meet designated success criteria and planting goals.								
4.4-2(e)	Exotic invasive species shall be prohibited in all open space areas or near ESHA areas and riparian corridors. Landscaping in open space areas and the COPR shall include native species from locally occurring genomes.		Design & Construction Services Project Manager	Design Phase	×	X	×	Ongoing	Design & Construction Services Director

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How Mitigation Measures Implemented Implementer	Phase	Applicable Project Component		Phase			
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.5 Haza	ards and Hazardous Materials				•	T	1		
4.5-2	If contaminated soil and/or groundwater is encountered during excavation and/or grading activities,  (i) The construction contractor(s) shall stop work and immediately inform the EH&S.  (ii) An on-site assessment shall be conducted to determine if the discovered materials pose a significant risk to the public or construction workers.  (iii) If the materials are determined to pose such a risk, a remediation plan shall be prepared and submitted to the EH&S to comply with all federal and State regulations necessary to clean and/or remove the contaminated soil and/or groundwater.  (iv) Soil remediation methods could include, but are not necessarily limited to, excavation and on-site treatment, excavation.  (v) Remediation alternatives for cleanup of contaminated groundwater could include, but are not necessarily limited	Incorporated into Contract Documents* Qualified Hazardous Materials Specialist will be contracted, if necessary	Design & Construction Services Project Manager, EH&S Department, Construction Contractor Project Manager (assist onsite assessment) or hire qualified professional	Grading Phase	X	X	X	Grading Phase	EH&S Director, Design & Construction Services Director

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		How		Phase	Applica	able Pr mpone	•	Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	to, on-site treatment, extraction and off-site treatment, and/or disposal.								
	(vi) The construction schedule shall be modified or delayed to ensure that construction will not inhibit remediation activities and will not expose the public or construction workers to significant risks associated with hazardous conditions.								
4.5-3	Prior to construction, field testing for radon shall be performed in areas where ground disturbance is proposed on the North Parcel and Storke-Whittier Site. If radon is identified, then radon control systems such as radon vent pipes or radon vent fans shall be incorporated into building construction in order to ensure radon concentrations in the home remains below EPA-recommended levels of 4 picocuries per liter.	Incorporated into Contract Documents*  Qualified Radon Specialist will be hired to perform field testing	Design & Construction Services Project Manager, EH&S Department	Grading Phase, Prior to Construction Phase		X	X	Grading Phase, Prior to Construction Phase	Design & Construction Services Director, EH&S Director
4.5-4(a)	In the event that abandoned oil wells are uncovered and/or disturbed during construction, construction activities shall cease in the immediate vicinity immediately and EH&S shall be contacted. Remedial capping operations would be required to re-cap the affected wells to current Department of Conservation specifications. Depending on the nature of soil contamination, if any, other	Incorporated into Contract Documents* and Emergency Operations Plan (EOP) Qualified professional will be hired to re-	Design & Construction Services Project Manager, Construction Contractor Project Manager, EH&S Department	Grading Phase	X	X	X	Grading Phase	EH&S Director, Santa Barbara County Fire Chief

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Number	Mitigation Measures	How Implemented	Implementer	Phase Implemented	Applicable Project Component			Phase	
					OSP	FH	SH	Monitored	Who Monitors
	appropriate agencies shall be notified (e.g., Santa Barbara County Fire Department FPD). The University shall ensure proper implementation of the reabandonment operation in compliance with all applicable laws and regulations.	cap affected wells							
4.5-4(b)	Following well discovery, a soil sampling strategy shall be prepared and implemented to characterize potential contamination from the well's former oil activities. Sampling locations shall be identified based upon historical review of on-site uses, locations of ground disturbance from either residential development or trail or coastal access improvements, and consultation with the County of Santa Barbara FPD. Once soils have been characterized, remediation, where necessary, shall be completed in conformance with County standards. County FPD shall review and approve closure reports for remediation plans upon completion of remediation activities and prior to ground disturbance.	Incorporated into Contract Documents*  Qualified professional will be hired to prepare soil sampling report and conduct sampling	Design & Construction Services Project Manager, Construction Contractor Project Manager, EH&S Department	Grading Phase	X	X	X	Grading Phase	EH&S Director, Santa Barbara County Fire Chief, Facilities Management Department

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		How Implemented	Implementer	Phase Implemented	Applicable Project Component			Phase	
Number	Mitigation Measures				OSP	FH	SH	Monitored	Who Monitors
4.5-6	Per LRDP policy 30253.17, should housing development occur south of the Ocean Meadows Golf Course, a minimum setback of 585 feet between the nearest Ellwood Marine Terminal storage tank and any residential structures shall be maintained.	Incorporated into Contract Documents* and Grading and Building Plans	Design & Construction Services Project Manager	Design Phase		X	X	Design Phase	Design & Construction Services Director
4.5-9(a)	Ongoing coordination between the UCPD, Santa Barbara County Fire Department, and the University shall ensure site access through roadway or travel lane closure coordination with emergency response personnel.	Incorporate into Contract Documents* and EOP	Design & Construction Services Project Manager	Design Phase	X	X	X	Ongoing	EH&S Director, UCSB Police Commander, Santa Barbara County Fire Chief
4.5-9(b)	(i) The University shall review and revise the EOP to address potential emergencies and evacuations associated with the proposed developments.  (ii) The University shall continue to implement the Emergency Operations Plan (EOP) to ensure that multiple emergency access or evacuation routes are provided to ensure that in the event one roadway or travel land is temporarily blocked, another may be utilized.	Incorporate into Contract Documents* and EOP	Design and Construction Services Project Manager and Housing and Residential Services Staff, EH&S Department	Ongoing	X	×	×	Ongoing	EH&S Director, Housing and Residential Services Director

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

	Mitigation Measures	How		Phase	Construction Services				
Number		Implemented		Implemented	OSP	FH	SH	Monitored	Who Monitors
4.5-10(a)	Landscaping around development areas adjacent to open space shall minimize dense vegetation immediately adjacent to structural development. Specifically, 12 to 18 inches of bare ground shall be kept between structures and grasses of other vegetation.	Incorporate into Contract Documents*	Design & Construction Services Project Manager or Construction Contractor Service Manager	Design Phase, Construction Phase		×	×	Construction Phase	Construction
4.5-10(b)	Mowing of any grassland adjacent to residential development on the North and West Campuses shall meet minimum standards for fire protection safety established by the County of Santa Barbara.	Incorporate into Contract Documents*	Housing and Residential Services Maintenance Staff	Ongoing		X	×	Ongoing	EH&S Director, Santa Barbara County Fire Chief, Housing and Residential Services Director
4.5-10(c)	In order to maintain a firebreak between the undeveloped areas and structures, fuel management setbacks shall be 10 feet from each side of a road and 30 feet from structures.	Incorporate into Contract Documents* and Grading and Building Plans	Design & Construction Services Director	Design Phase	X	X	×	Design Phase	Design & Construction Services Director, Santa Barbara County Fire Chief
4.5-10(d)	Dead and dying tree limbs, especially those that overhang the roof of any structures, and all vegetation within 10 feet of any chimney shall be removed.	Incorporated into Contract Documents*	Housing and Residential Services Maintenance Staff	Ongoing		X	X	Ongoing	Housing and Residential Services Director
4.5-10(e)	Grass and low-to-ground vegetation (ivy, vines, weeds) in proximity to structures shall be kept no more than six inches high.	Incorporated into Contract Documents*	Housing and Residential Services Maintenance Staff	Ongoing		X	X	Ongoing	Housing and Residential Services Director

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

Number		How		Phase Implemented	Applicable Project Component			Phase	
	Mitigation Measures	Implemented	Implementer		OSP	FH	SH	Monitored	Who Monitors
4.5-10(f)	Design of residential structures adjacent to open areas with native vegetation shall incorporate appropriate fire suppression systems into building design, which may include fire sprinkler systems, tempered or multiple pane windows, and fire-retardant materials for roofs, exterior walls, and siding.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase		×	×	Design and Construction Phase	Housing and Residential Services Director, EH&S Director
4.9 Visua	al Resources								
4.9-3(a)	Per LRDP policy 302510.7, in order to preserve existing native trees and significant stands of trees that pre-date University acquisition of the campus, to the extent feasible, native trees shall be retained within the overall site area of new development.	Incorporated into Contract Documents* and Grading Plans	Design & Construction Services Project Manager or Construction Contractor Project Manager	Design Phase, Grading Phase	Х			Design Phase, Grading Phase	Design & Construction Services Director
4.9-3(b)	Per LRDP policy 30251.8, existing topography, vegetation, and scenic features of the North and West Campuses are to be retained and incorporated into the proposed development whenever possible.	Incorporated into Contract Documents* and Grading and Building Plans	Design & Construction Services Project Manager or Construction Contractor Project Manager	Design Phase	×	X	X	Design Phase, Grading Phase	Design & Construction Services Director

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Applicable Proje Phase Component				Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.9-3(c)	Per LRDP policy 30251.9, trees or shrubs may be selectively removed or trimmed to provide views to and along the ocean and scenic coastal areas along the primary view corridors identified in Figure 25 (1990 LRDP) or for safety reasons. Any removal of trees or shrubs shall be timed to avoid the nesting season of local birds (January through June).	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Facilities Management Project Manager	Ongoing	X			Ongoing	Design & Construction Services Director, AVC of Campus Planning and Facilities Management
4.9-3(d)	Per LRDP policy 30251.10, specimen trees or groves that contribute to the visual attractiveness of the North and West Campuses may not be removed, unless necessary for safety reasons or to provide the least cleared area sufficient to locate and construct approved roads and structures on the site. Selective clearing of vegetation may be permitted where panoramic views may be presently obscured by such vegetation.	Incorporated into Contract Documents* and Grading and Building Plans	Facilities Management Project Manager	Design Phase	×	X	X	Grading Phase	AVC of Campus Planning and Facilities Management

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applica Cor	able Pr mpone		Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.9-3(e)	(i) Per LRDP policy 30251.11, contours of finished surfaces on North and West Campuses are to be blended to achieve a consistent grade and natural appearance. Borders of cut slopes and fills are to be rounded off to a minimum radius of 5 feet so as to blend with the natural terrain.	Incorporated into Contract Documents* and Grading Plans	Design & Construction Services Project Manager or Construction Contractor Project Manager	Design Phase, Grading Phase	X	×	×	Design Phase, Grading Phase	Design & Construction Services Director
	(ii) This shall be applicable to development and structures on the North and West Campuses.								
4.9-3(f)	Text associated with this mitigation measure has been deleted.								
4.9-3(g)	Per LRDP policy 30251.16, natural building materials and colors that are compatible with the surrounding landscape will be used where practical.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase	X	×	X	Design Phase, Construction Phase	Design & Construction Services Director
4.9-3(h)	Native plantings will be used to visually integrate and buffer development from public access corridors.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Design Phase	X	X	X	Design Phase, Construction Phase	Design & Construction Services Director
4.9-4(a)	The use of reflective mirrored glass for windows shall be minimized in residential development. Wherever feasible, the use of nonreflective, textured materials to minimize glare impacts shall be maximized in residential development.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase		X	×	Design Phase, Construction Phase	Design & Construction Services Director

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

	Midiration Massumes	How		Phase	Applicable Project Component			Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.9-4(b)	(i) Per LRDP policy 30240(b)4, all new lighting on the Campus shall be kept at the minimum level which strikes a balance between safety and habitat protection, and shall be designed to avoid glare into adjacent properties.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase	X	X	X	Design Phase, Construction Phase	Design & Construction Services Director
	(ii) This shall be applicable to all outdoor lighting associated with proposed developments on the North Campus.								
	(iii) Outdoor lighting shall be of the minimum wattage required for the particular use and shall be directed to the specific location intended for illumination (e.g., roads, walkways, or recreation fields) to prevent stray light spillover onto adjacent residential areas or sensitive habitat.								
	(iv) All fixtures on elevated light standards, such as in parking lots or along roadways, shall be shielded to reduce glare.								

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applica Cor	able Pr mpone	•	Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.10 Rec	reation	T	T	T	ı	1	ı		
4.10-1(a)	(i) Per LRDP policy 30213.1, outdoor recreational facilities, including recreation fields, basketball and tennis courts, may be used by the public at no cost, when not occupied by University classes or programs.	LRDP	Recreation Center Director	Ongoing	X	X	X	Ongoing	Recreation Center Director
	(ii) This shall be applicable to residents of the proposed developments on the North Campus as well as visitors of open space/recreational areas of the North and West Campuses.								
4.10-1(b)	Per LRDP policy 30240(a)2, existing and proposed fences, signs, and information maps around the perimeter of the Reserve shall be maintained to restrict unauthorized access by pedestrians, dogs, motor vehicles (except service and emergency vehicles), and off-road bicycles.	Incorporated into Contract Documents or Memorandum of Understanding with COPR	Facilities Management Project Manager/COPR	Ongoing	X			Ongoing	Director, AVC of Campus Planning and Facilities Management
4.10-1(c)	Per LRDP policy 30240(a)15, unleashed dogs and motor vehicles, except for service and emergency vehicles, shall be prohibited on campus beaches and in the North and West Campuses open space area.	LRDP	Campus Police	Ongoing	X			Ongoing	Campus Police

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		How		Phase	Applic	able Pr mpone		Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.11 Cul	tural Resources								
4.11-2(a)	A University-qualified archaeologist shall complete a Phase I archaeological survey of all areas of the Faculty Housing, Sierra Madre, and Open Space Plan project sites where ground disturbance would occur.	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Construction Contractor Project Manager will hire qualified archaeologist	Grading Phase	X	X	X	Grading Phase	Design & Construction Services Director
4.11-2(b)	Per LRDP policy 30244.2, the Department of Anthropology and Native Americans shall be consulted when development may adversely impact archaeological resources.	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Construction Contractor Project Manager	Design Phase	X	X	X	Grading Phase	Design & Construction Services Director
4.11-2(c)	Per LRDP policy 30244.3, when development is proposed for areas where archaeological resources are affected, the project shall be designed to minimize impacts on such resources.	Project Design	Design & Construction Services Project Manager	Design Phase	Х	X	X	Design Phase	Design & Construction Services Director, Campus Planning & Design
4.11-2(d)	Per LRDP policy 30244.4, during any grading and other activities that may result in ground disturbance on archaeological sites, a non-University affiliated archaeologist recognized by the SHPO and a Native American representative shall be present.	Incorporated into Contract Documents*  Qualified archaeologist will be hired	Hired qualified archaeologist and Construction Contractor Project Manager	Grading Phase	X	X	X	Grading Phase	Design & Construction Services Director

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		How		Phase	Applic	able Pr mpone		Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.11-2(e)	(i) Per LRDP policies 30244. I and 30244.5, should archaeological or paleontological resources be disclosed during any planning, pre-construction, or construction phase of the project, all activity which could damage or destroy these resources shall be temporarily suspended until the site has been examined by a non-University archaeologist recognized by the SHPO, all available measures shall be explored to avoid development which will have adverse impacts on archaeological resources, and mitigation measures shall be developed and implemented to address the impacts of the project on archaeological resources.	Incorporated into Contract Documents*	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase	X	X	X	Grading Phase, Construction Phase	Design & Construction Services Director
	(ii) A qualified, non-University archaeologist shall first determine whether an archaeological resource uncovered during construction is a unique archaeological resource under PRC Section 21083.2(g), and. If the archaeological resource is determined to be a unique archaeological resource, the archaeologist shall formulate a mitigation plan in consultation with the campus that satisfies the requirements of Section								

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		How		Phase	Applica	able Pr mpone		Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	21083.2.								
	(iii) If the archaeologist determines that the archaeological resource is not a unique archaeological resource, the archaeologist may record the site and submit the recordation form to the California Historic Resources Information System Central Coast Information Center. The archaeologist shall prepare a report of the results of any study prepared as part of a mitigation plan, following accepted professional practice. Copies of the report shall be submitted to the University and to the California Historic Resources Information System Central Coast Information Center.								
4.11-2(f)	Per LRDP policy 30244.7, when development that may impact an archaeological resource is proposed, the University shall follow the step-by-step procedure for identifying, evaluating, and mitigating impacts on archaeological resources identified in the revised Appendix F of the 1990 LRDP FEIR. The procedure is included in the Faculty and Family Student Housing, Open Space Plan, and LRDP Amendment EIR.	Incorporated into Contract Documents*	Design and Construction Services Project Manager	Design Phase	X	X	X	Design Phase	Design & Construction Services Director

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		How		Phase	Applica Cor	able Pr npone	-	Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.11-2(g)	Each beach access point (stairway, boardwalk, or other access modality) and each trail access point shall have posted signage requesting that users respect the sensitive resources of the Open Space Plan area, including but not limited to biological, cultural, wetlands, and geological resources, as well as the presence of possible hazards resulting from natural hydrocarbon seeps. Such signage shall not disclose the location of any particular cultural resource in order to prevent vandalism, theft, or other desecration or despoliation of the resource. Such signage shall convey an educational tone in keeping with the mission of the University's role in the Open Space Plan.		Facilities Management Grounds Department will write sign text in accordance with Campus Planning and Design; Facilities Management will install signs	Design Phase	X			Post-construction Phase	AVC of Campus Planning and Facilities Management Facilities Management and Campus Planning & Design Director
4.11-2(h)	Per LRDP policy 30244.6, vehicle use, unauthorized collecting of artifacts, or other activities that would destroy or disturb archaeological resources shall continue to be prohibited.		Campus Police	Ongoing	X			Ongoing	Campus Police

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		How		Phase	Applica Cor	able Pr npone		Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.11-4	In the event of the discovery of a burial, human bone, or suspected human bone, all excavation or grading in the vicinity of the find shall halt immediately, the area of the find shall be protected, and the University immediately shall notify the Santa Barbara County Coroner of the find and comply with the provisions of PRC Section 5097 with respect to Native American involvement, burial treatment, and reburial, if necessary.	Incorporated into Contract Documents*	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase	×	X	X	Grading Phase	Design & Construction Services Director, Native American Indian representative
4.12 Tra	nsportation and Traffic								
4.12-1(a)	Modify the two-lane roadway section of El Colegio Road between Stadium Road on the east and Camino Corto Lane on the west, with a series of roundabouts at Camino Del Sur, Los Carneros Road, Camino Pescadero, Embarcadero Del Mar, Embarcadero Del Norte, and Stadium Road. Each roundabout would be designed to accommodate a truck with a 50-foot wheelbase, and each roundabout center island would provide an area for landscaping. The roundabout at Los Carneros Road would have two lanes approaching from each of the three legs. The Camino Pescadero and Embarcadero Del Mar roundabouts would have a single lane approaching, circulating, and exiting the roundabout from every direction. The	Incorporated into Contract Documents with County, Coordinated with County of Santa Barbara	Design & Construction Services Project Director	Design Phase		×	X	Design Phase, Construction Phase	VC Administrative Services, Design & Construction Services Director, Campus Planning and Design Director

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applica	able Pr mpone	-	Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	Embarcadero Del Norte roundabout would have one northbound lane approaching from Isla Vista, two westbound lanes approaching from UCSB, and two eastbound approach lanes. The roundabout at Stadium Road would have a single approaching, circulating, and exiting lane.								
4.12-1(b)	The City of Goleta and the County of Santa Barbara have reviewed the improvements required for this roadway [i.e., Storke Road] and determined that the west side of Storke Road will need to be widened from Whittier Drive to El Colegio (adjacent to the Ocean Meadows Golf Course and the UCSB West Campus Apartments) to provide two southbound lanes, bike lanes, sidewalks and a raised median with left-turn pockets. A wildlife-friendly crossing will be required to allow wildlife to reach the open space on eastern side of Storke Road.	Incorporated into Contract Documents* with City of Goleta, Coordinated with City of Goleta	Design & Construction Services Project Director	Design Phase		X	×	Design Phase, Construction Phase	VC Administrative Services, AVC of Campus Planning and Facilities Management, City of Goleta Public Works Director, County of Santa Barbara Public Works Director, Campus Planning & Design Director
4.12-1(c)	Three mitigation options have been developed for the project-specific impact at the Storke Road/Hollister Avenue intersection.	Incorporated into Contract Documents* with City of	Design & Construction Services Project Director	Design Phase		X	×	Design Phase, Construction Phase	Design & Construction Services Director,

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		How		Phase	Applic Cor	able Pr mpone		Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	(i) One of the operational constraints at the Storke Road/Hollister Avenue intersection is the lack of a westbound merge lane for the heavy right-turn movement from southbound Storke Road onto westbound Hollister Avenue. Vehicles traveling southbound on Storke Road turning right onto Hollister Avenue are at times delayed at the yield sign waiting for gaps in the westbound traffic stream on Hollister Avenue. These vehicles form queues that back-up onto Storke Road and affect the southbound through movements at the traffic signal. Providing a merge lane in front of the service station on this corner of the intersection would allow the vehicles to turn onto Hollister Avenue without being delayed by the through traffic.	Goleta, Coordinated with City of Goleta							Campus Planning & Design Director
	(ii) The GTIP includes an improvement for the intersection that involves adding a third eastbound left-turn lane. The GTIP improvement would also require adding a third lane on Storke Road northbound from Hollister Avenue to the U.S. 101 southbound ramp intersection. There are currently two northbound lanes on Storke Road and the third land would be required								

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Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	to accept the traffic from the three eastbound left-turn lanes on Hollister Avenue. Implementation of the third left-turn would also require widening of Hollister Avenue adjacent to the Camino Real Marketplace site, which would require additional right-of-way from adjacent properties. The intersection's operation would be improved to LOS C (V/C 0.77/LOS C) with this improvement.								
	(iii) The 1997 GTIP also include a project to add a third westbound through lane at the Storke Road/Hollister Avenue intersection. Adding a third westbound through lane (instead of the third eastbound left-turn lane) would improve the intersection operation to LOS C (V/C 0.78/LOS C). The third westbound through lane option at the intersection would require acquisition of right-of-way from developed properties on the north side of Hollister Avenue west of Storke Road (from a gas station and a recently constructed office building), as well as right-of-way from a vacant parcel located east of the intersection.								

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		How		Phase	Applica Cor	able Pı mpone	•	Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.12-1(d)	UCSB shall participate in the "fair share" funding of improvements to Storke Road and the Storke Road/Hollister Avenue intersection, meaning the University will negotiate with the City of Goleta and the County of Santa Barbara as appropriate for a contribution to the upgrade pursuant to procedures similar to those described in Government Code 54999 et seq. for contributions to utilities. In addition, the University will pay its fair share only if the City of Goleta and the County of Santa Barbara have established a mechanism to collect funds from other developers or entities that are contributing to traffic impacts and implements the proposed road or intersection improvements.	Incorporated into negotiated Contract Documents*	Design & Construction Services Project Director, VC Administrative Services	Prior to Construction Phase		×	X	Prior to Construction Phase	VC Administrative Services, Design & Construction Services Director, City of Goleta Public Works Director, County of Santa Barbara Public Works Director, Campus Planning & Design Director
4.12-6	Maintain at least one unobstructed lane in both directions on all campus and public roadways. At any time when only a single lane is available, provide a temporary traffic signal, signal carriers (i.e., flagpersons), or other appropriate traffic controls to allow travel in both directions. An encroachment permit from the City of Goleta may be required.	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Construction Contractor Project Manager	Construction Phase		×	×	Construction Phase	Design & Construction Services Director

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applica Cor	able Pr mpone	•	Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.12-7	For any construction-related closure of pedestrian routes, signage shall be provided indicating alternative routes. Where necessary, provide curb cuts and street crossings to ensure that alternate routes are accessible.	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Construction Contractor Project Manager	Construction Phase	X	X	X	Construction Phase	Design & Construction Services Director
4.12-9	To ensure adequate access for emergency vehicles when construction projects would result in roadway closures, the Office of Design, Construction, and Physical Facilities shall consult with the University Police Department and the SBFD to disclose roadway closures and identify alternative travel routes.	Office of Design & Construction and Physical Facilities consults with Campus Police and SBFD	Design & Construction Services Project Manager	Design Phase	X	X	X	Design and Construction Phase	Design and Construction Services Director, EH&S Director, UCSB Police Commander, Santa Barbara County Fire Chief
4.13 Noi	se								
4.13-2	Construction activities shall be limited to the hours between 7:00 A.M. and 5:00 P.M. and shall not occur on weekends or federal holidays. Non-vibration generating construction activities such as interior finishes are not subject to these time restrictions.	Incorporated into Contract Documents*	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase, Construction Phase	X	X	X	Grading Phase, Construction Phase	Design & Construction Services Director

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applic Cor	able Pr mpone		Phase	Who Monitors
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.13-6(a)	Stationary construction equipment that generates noise levels in excess of 65 dBA Leq shall be located as far away from existing residential areas as possible. If required to minimize potential noise conflicts, the equipment shall be shielded from noise sensitive receptors by using temporary walls, sound curtains, or other similar devices.	Incorporated into Contract Documents* and Grading and Building Plans	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase, Construction Phase	×	×	X	Grading Phase, Construction Phase	Design & Construction Services Director
4.13-6(b)	An information sign shall be posted at the entrance to each construction site that identifies the permitted construction hours and provides a telephone number to call and receive information about the construction project or to report complaints regarding excessive noise levels.	Incorporated into Contract Documents*	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase, Construction Phase	×	X	X	Grading Phase, Construction Phase	Design & Construction Services Director
4.14 Air	Quality								
4.14-2(a)	The campus shall implement, to the extent feasible, dust control measures throughout the construction phases of new project development:  Active grading sites shall be watered at least twice daily to prevent dust from leaving the site  Vehicle movement areas shall be watered at least three times daily to prevent dust from leaving the site	Incorporated into Contract Documents* and Grading and Building Plans	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase, Construction Phase	X	X	X	Grading Phase, Construction Phase	Design & Construction Services Director

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	Mitigation Measures	How		Phase	Applic Cor	able Pr mpone		Phase	Who Monitors
Number		Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	
	Soil stockpiled for more than two days shall be covered, kept moist, or treated with soil binders to prevent dust generation								
	After clearing, grading, earthmoving, or excavation is completed, the areas of exposed soil shall be treated by watering, revegetating, or by spreading soil binders until the area is paved or otherwise developed								
	Excavation and grading operations shall be suspended when wind speeds (as instantaneous gusts) exceed 25 mph over a 30-minute period								
	Traffic speed limits of 15 mph or less shall be posted and enforced on all unpaved roads								
	All trucks hauling dirt, sand, soil, or other loose materials shall be covered or maintain at least two feet of freeboard (i.e., minimum vertical distance between top of the load and the top of the trailer), in accordance with Section 23114 of the California Vehicle Code								
	Gravel pads shall be located at all vehicle access points to minimize the tracking of dust onto public roads								

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		How		Phase	Applica Cor	able Pr mpone		Phase	Who Monitors
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	
	Adjacent roadways shall be swept at the end of the construction work day if visible soil is transported into the street by construction activities								
	Construction contractors shall designate a monitor for the dust control program. The name, telephone number, and work schedule of such person(s) shall be provided to the campus and SBCAPCD prior to the issuance of grading permits.  All required dust control measures shall be shown on project grading and building plans								
4.12-2(b)	The campus shall implement, to the extent feasible, measures to reduce the amount of emissions generated by off-road construction equipment throughout the construction phases of new project development:  Heavy-duty diesel-powered construction equipment manufactured after 1996 (with federally mandated "clean"	Incorporated into Contract Documents* and Buildings Plans	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase, Construction Phase	x	X	X	Grading Phase, Construction Phase	Design & Construction Services Director
	diesel engines) shall be used to wherever feasible  The engine size of construction equipment shall be the minimum practical size								

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Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
	The number of construction equipment operating simultaneously shall be minimized through efficient management practices to ensure that the smallest practical number is operating at any one time								
	Construction equipment shall be maintained in proper tune per the manufacturer's specifications								
	Construction equipment operating at the site shall be adjusted with two to four degree engine timing retard or equipped with precombustion chamber engines								
	Catalytic converters shall be installed on gasoline-powered equipment, if feasible								
	Diesel catalytic converters, diesel oxidation catalysts, and diesel particulate filters as certified and/or verified by the U.S. EPA or ARB shall be installed, if available and costeffective								
	Diesel-powered equipment shall be replaced by electric equipment whenever feasible								

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

		How		Phase	Applica Cor	able Pr mpone	•	Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.15 Pub	lic Services and Utilities								
4.15-1	Fire alarm connections to the University Police Command Center shall continue to be provided in all new buildings to provide immediate location information to the SBCFD to reduce response times in emergency situations.	Incorporated into Contract Documents* and Buildings Plans	Design & Construction Services Project Manager, Campus Fire Marshall	Design Phase		X	×	Ongoing	EH&S Director, UCSB Police Commander, Santa Barbara County Fire Chief, Campus Fire Marshall
4.15-2(a)	Police staffing levels and equipment needed shall continue to be assessed on an ongoing annual basis during the campus budgeting process to ensure that the appropriate service levels will be maintained to protect an increased campus population and an increased level of development.	Campus Police	Campus Police	Ongoing	×	X	×	Ongoing	EH&S Director, UCSB Police Commander
4.15-2(b)	Annual meetings will be attended by the Directors of Housing, the COPR and the UCPD, to evaluate the adequacy of police protection service for University-owned housing and the COPR, assess institutional priorities and budgetary requirements, and identify and implement appropriate actions to ensure the continue adequacy of police protection services for resident students and faculty and the COPR.	Memorandum of Understanding between Directors of Housing, COPR, Campus Police	VC Administrative Services	Ongoing	×	Х	X	Ongoing	Housing Director, UCSB Police Commander, COPR Director, Campus Planning & Design Director

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		How		Phase	<b>—</b>	mpone	nt	Phase	
4.15-2(c)	Mitigation Measures  Lighting associated with the proposed developments on the North Campus shall meet minimum standards for safety.	Implemented Incorporated into Contract Documents* and Building Plans	Implementer  Design & Construction Services Project Manager	Design Phase	OSP	X	X	Monitored  Design Phase	Who Monitors  Design & Construction Services Director
4.15-4	<ul> <li>(i) Per LRDP policy 30254.1,         development of water mains,         reclaimed water distribution systems,         water treatment facilities, sewage         lines, and telephone transmission lines         will be designed and constructed to         meet campus needs.</li> <li>(ii) This shall be applicable to the         proposed developments on the North         Campus.</li> </ul>	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase, Construction Phase		×	×	Design Phase, Construction Phase	Design & Construction Services Director, Facilities Management Project Manager
4.15-6(a)	New facilities shall be equipped with low- flow showers and toilets and high efficiency washing machines.	Incorporated into Contract Documents and Building Plans during project design	Design & Construction Services Project Manager	Design Phase, Construction Phase		X	X	Design Phase, Construction Phase	Design & Construction Services Director, EH&S Director, Housing and Residential Services Director

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		How		Phase	Applica Cor	able Pr npone		Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.15-6(b)	Measures to reduce landscaping irrigation needs shall be used, such as automatic timing systems to apply irrigation water during times of the day when evaporation rates are low, installing drip irrigation systems, using mulch for landscaping, subscribing to the California Irrigation Management Information System Network for current information on weather and evaporation rates, and incorporating drought-resistant plants as appropriate.	during project design	Design & Construction Services Project Manager	Design Phase		×	×	Ongoing	Design & Construction Services Director, EH&S Director, Housing and Residential Services Maintenance Staff
4.15-6(c)	The campus shall promptly detect and repair leaks in water and irrigation pipes.	Housing Maintenance will routinely inspect housing units and respond to calls	Housing & Residential Services maintenance	Ongoing		X	X	Ongoing	Housing & Residential Services
4.15-6(d)	The campus shall minimize the use of water to clean sidewalks, walkways, driveways, and parking areas.	Housing policy documents	Housing & Residential Services maintenance	Ongoing		Х	Х	Ongoing	Housing & Residential Services

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	Mitigation Measures	How		Phase	Applicable Project Component			Phase	NA NA 11
Number		Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.15-7(a)	The campus shall include faculty housing, Sierra Madre housing, and Open Space Plan areas under the University's jurisdiction in the existing solid waste reduction and recycling program. The program shall be designed to limit the total quantity of campus solid waste that is disposed of in landfills by including recycling areas for the proposed faculty and Sierra Madre housing developments and recycling barrels at trail heads and parking lots within the Open Space Plan areas.	Incorporated into Contract Documents* with refuse and recycling contractor	University Housing and Residential Services Department/ Facilities Management	Ongoing	X	×	X	Ongoing	University Housing and Residential Services Director and Facilities Management Recycling Coordinator
4.15-7(b)	All trash containers within the proposed residential developments on the North and West Campus as well as the Open Space and parking lot areas will have closing lids or equivalent design to keep pest animals out.	Incorporated into Project Design	Design & Construction Services Project Manager and Facilities Management	Design and Ongoing	X	×	×	Ongoing	University Housing and Residential Services Director and Facilities Management, AVC of Campus Planning and Facilities Management

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		How		Phase	Applica	able Pr npone		Phase	
Number	Mitigation Measures	Implemented	Implementer	Implemented	OSP	FH	SH	Monitored	Who Monitors
4.15-11	The University will work in good faith to resolve any issues with GWSD, if necessary, to properly account for the University use of conveyance capacity of the Goleta West Sanitary District in order to serve North Campus faculty housing. To the extent that existing reserves of the GWSD are insufficient to implement the proposed replacement and/or upgrades to the trunk line serving the proposed project, the University will provide a fair share contribution towards any required improvements, meaning the University will negotiate with the Goleta West Sanitary District for a contribution to the upgrade pursuant to the procedures described in Government Code 54999 et seq. for contributions to utilities. In addition, the University will pay its fair share only if the Goleta West Sanitary District has established a mechanism to collect funds from other developers or entities that are contributing to trunk line capacity impacts and implements the proposed improvements.	into Contract Documents*	Facilities Management Department	Design Phase, Ongoing		X	X	Design Phase, Ongoing	Facilities Management

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